

GSM TELEPHONE SGH-D520

SERVICE Manual

GSM TELEPHONE



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SAMSUNG ELECTRONICS



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1. Safety Precautions

1-1. Repair Precaution

- Repair in Shield Box, during detailed tuning.
 Take specially care of tuning or test,
 because specipicty of cellular phone is sensitive for surrounding interference(RF noise).
- Be careful to use a kind of magnetic object or tool,
 because performance of parts is damaged by the influence of manetic force.
- Surely use a standard screwdriver when you disassemble this product, otherwise screw will be worn away.
- Use a thicken twisted wire when you measure level.
 A thicken twisted wire has low resistance, therefore error of measurement is few.
- Repair after separate Test Pack and Set because for short danger (for example an overcurrent and furious flames of parts etc) when you repair board in condition of connecting Test Pack and tuning on.
- Take specially care of soldering, because Land of PCB is small and weak in heat.
- Surely tune on/off while using AC power plug, because a repair of battery charger is dangerous when tuning ON/OFF PBA and Connector after disassembing charger.
- Don't use as you pleases after change other material than replacement registered on SEC System.
 - Otherwise engineer in charge isn't charged with problem that you don't keep this rules.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

Several semiconductor may be damaged easily by static electricity. Such parts are called by ESD(Electrostatically Sensitive Devices), for example IC,BGA chip etc. Read Precaution below. You can prevent from ESD damage by static electricity.

- Remove static electricity remained your body before you touch semiconductor or parts with semiconductor. There are ways that you touch an earthed place or wear static electricity prevention string on wrist.
- Use earthed soldering steel when you connect or disconnect ESD.
- Use soldering removing tool to break static electricity. , otherwise ESD will be damaged by static electricity.
- Don't unpack until you set up ESD on product. Because most of ESD are packed by box and aluminum plate to have conductive power, they are prevented from static electricity.
- You must maintain electric contact between ESD and place due to be set up until ESD is connected completely to the proper place or a circuit board.

2. Specification

2-1. GSM General Specification

| | • | | | |
|---------------------------------|-----------------------|--------------------------------|---|--------------------------|
| | | E-GSM | DCS1800 | PCS1900 |
| Freq. Ba Uplink/D | | 880~915 925~960 | 1710~1785 1805~1880 | 1850~1910 1930~1990 |
| ARFCN | range | 975~1023 0~124 | 512~885 | 512~810 |
| Tx/Rx | spacing | 45 MHz | 95 MHz | 80 MHz |
| Mod. Bit rate/ Bit Period | GPRS | 270.833 Kbps 3.692 us | 270.833 Kbps 3.692 us | 270.833 Kbps 3.692 us |
| | eriod/Frame iod | 576.9 us 4.615 ms | 576.9 us 4.615 ms | 576.9 us 4.615 ms |
| Modulation | GPRS | 0.3 GMSK | 0.3 GMSK | 0.3 GMSK |
| MS Power | wer GPRS 33 dBm~5 dBi | | 30 dBm∼0 dBm | 30 dBm∼0 dBm |
| Power Level | GPRS | GPRS 5~19(class4) 0~15(class1) | | 0~15(class1) |
| Sensi | tivity | -102 dBm | -100 dBm | -102 dBm |
| TDMA | Mux | 8 | 8 | 8 |
| Cell Radius | | 35 Km | 2 Km | 2 Km |
| Operating Temperature | | -20 ℃ ~ 45 ℃ | -20 ℃ ~ 45 ℃ | -20 ℃ ~ 45 ℃ |
| Supply | Voltage | 3.7 V | 3.7 V | 3.7 V |
| Size and Weight | | , | H) \times 52(W) \times 14.9(D) with standard batter | |

2-2. GSM TX Power Level

| TX Power control level | E-GSM | TX Power control level | DCS1800 | TX Power control level | PCS1900 |
|------------------------|----------|------------------------|----------|------------------------|----------|
| 5 | 33±2 dBm | 0 | 30±3 dBm | 0 | 30±3 dBm |
| 6 | 31±2 dBm | 1 | 28±3 dBm | 1 | 28±3 dBm |
| 7 | 29±2 dBm | 2 | 26±3 dBm | 2 | 26±3 dBm |
| 8 | 27±2 dBm | 3 | 24±3 dBm | 3 | 24±3 dBm |
| 9 | 25±2 dBm | 4 | 22±3 dBm | 4 | 22±3 dBm |
| 10 | 23±2 dBm | 5 | 20±3 dBm | 5 | 20±3 dBm |
| 11 | 21±2 dBm | 6 | 18±3 dBm | 6 | 18±3 dBm |
| 12 | 19±2 dBm | 7 | 16±3 dBm | 7 | 16±3 dBm |
| 13 | 17±2 dBm | 8 | 14±3 dBm | 8 | 14±3 dBm |
| 14 | 15±2 dBm | 9 | 12±4 dBm | 9 | 12±4 dBm |
| 15 | 13±2 dBm | 10 | 10±4 dBm | 10 | 10±4 dBm |
| 16 | 11±2 dBm | 11 | 8±4 dBm | 11 | 8±4 dBm |
| 17 | 9±2d Bm | 12 | 6±4 dBm | 12 | 6±4 dBm |
| 18 | 7±2d Bm | 13 | 4±4 dBm | 13 | 4±4 dBm |
| 19 | 5±2d Bm | 14 | 2±5 dBm | 14 | 2±5 dBm |
| | | 15 | 0±5 dBm | 15 | 0±5 dBm |

3. Product Function

3-1. Main Function

- -Camera and camcorder
- -Image editor
- -File viewer
- -Bluetooth
- -Get personal with photo caller ID
- -Name card
- -Multimedia Message Service (MMS)
- -Email
- -Web browser
- -Java
- -Voice recorder

4. Array course control



Software Downloading

4-1. Downloading Binary Files

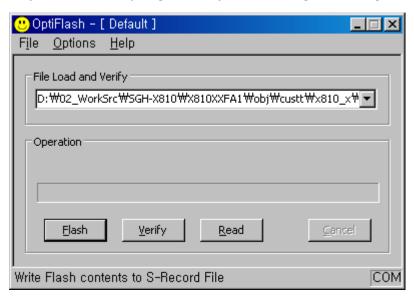
- Two binary files for downloading D520.
- D520XXYY.s3 : Main source code binary.
- D520XXYY.cts: Default Contents binary.

4-2. Pre-requsite for Downloading

- Downloader Program(OptiFlash.exe)
- D520 Mobile Phone
- Data Cable
- Binary files
- CTS files

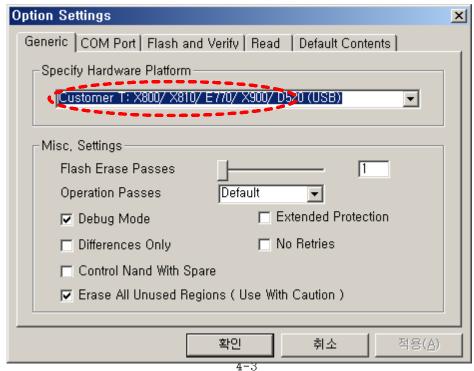
4-3. S/W Downloader Program

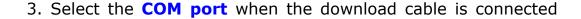
1. Load the binary download program by executing the "OptiFlash.exe"

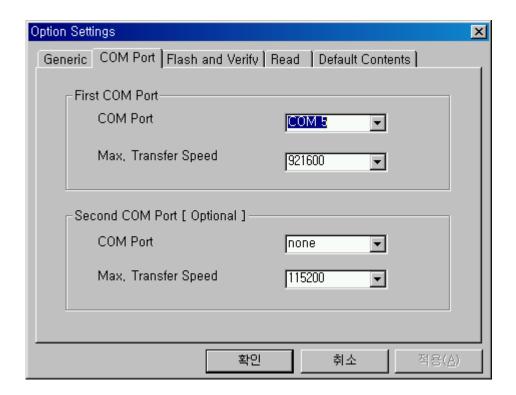


2. Select the "Options" -> "Settings" -> "Generic" -> "Specify hardware platform".♪

Choose hardware platform for the downloader file setting. >> Set the everything else as the default values which are shown below



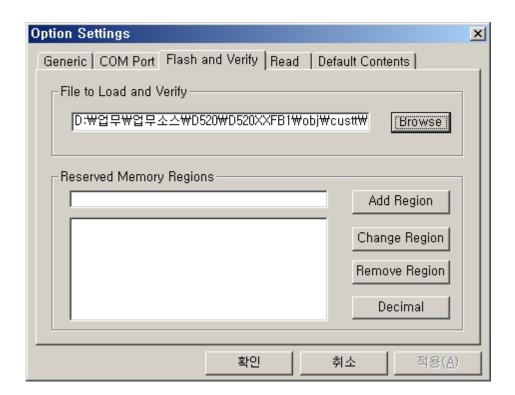




Up to 64 ports are supported. Additionally you can select the maximum transfer speed OptiFlash will use to communicate with the phone. However, OptiFlash will use a slower speed if either the PC's or the phone's serial hardware is incapable of handling the selected speed

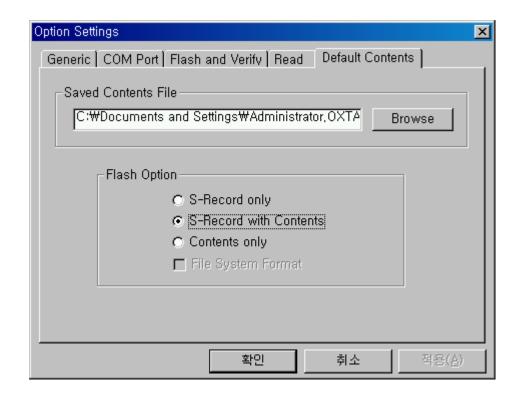
4. Select the "Flash & Verify" -> "Browse"

Set the directory path and choose the latest s/w binary, for example "D520XXYY.s3",) for the downloader binary setting.



In case of D520 the reserved regions are not a necessity. (It is defined in platform.def file)

5. Select the "Default Contents" -> "Browse"
Set the directory path and choose the CTS file, for example "D520XXYY.cts",) for the downloader binary setting.



Function of Flash option

S-Record only: download binary only

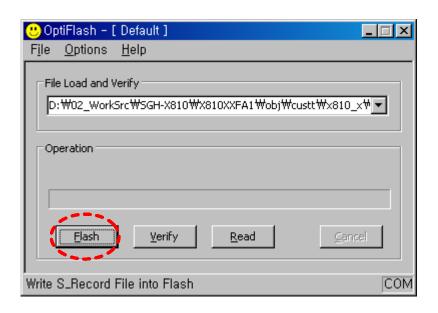
S-Record with Contens: download binary with default contents

Contents only: download default contents

6. Click "OK" button then press "Flash".♪

(Before pressing 'Flash' button, push the button '*'and 'END' at the same time. Then press 'Flash'.)♪

Downloader will upload the binary file as below for the downloading.



- 7. When downloading is finished successfully, there is a "All is well" message. ▶
- 8. After finishing downloading, Certain memory resets should be done to guarantee the normal performance.
- 9. Confirm the downloaded version name and etc. :

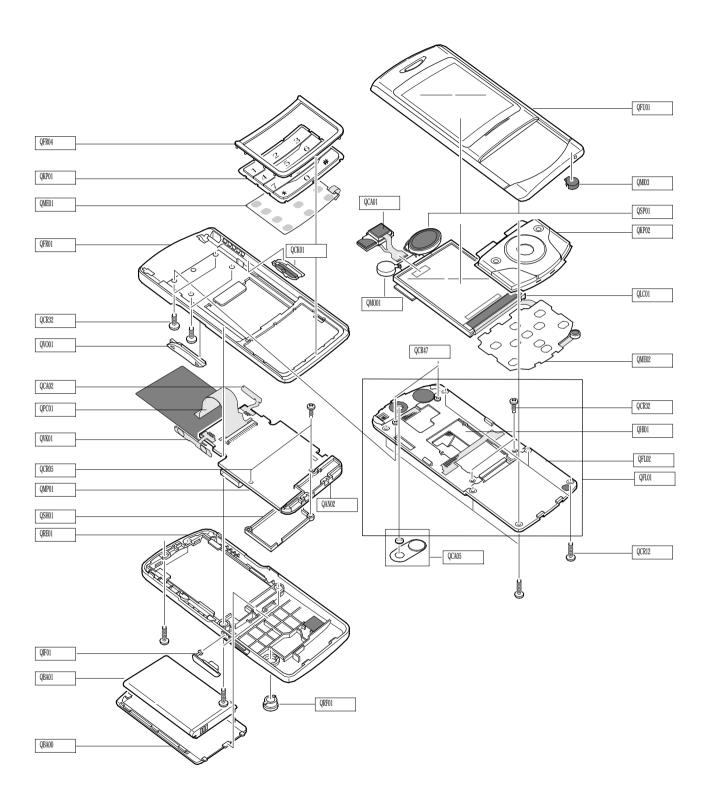
*#5002*8376263#**>**

Full Reset : ♪

*2767*3855#

5. Exploded View and Parts List

5-1. Cellular phone Exploded View



5-2. Cellular phone Parts list

| Desig | n LOC | Discription | SEC CODE |
|-------|-------|--------------------------------|-------------|
| QAN02 | | INTENNA-SGHD520 | GH42-00740A |
| QBA00 | | ASSY-COVER-BATT | GH98-00721B |
| QBA01 | | INNER BATTERY PACK-800MAH,BLK, | GH43-01850A |
| QCA01 | | UNIT-CAMERA | GH59-02860A |
| QCA02 | | UNIT-CAMERA KEY | GH59-02799A |
| QCA05 | | MEC-SUB FLASH DECO | GH75-08862A |
| QCK01 | | MEC-CAM KEY | GH75-08866A |
| QCR05 | | SCREW-MACHINE | 6001-001478 |
| QCR05 | | SCREW-MACHINE | 6001-001478 |
| QCR12 | | SCREW-MACHINE | 6001-001530 |
| QCR32 | | SCREW-MACHINE | 6001-001700 |
| QFR01 | | MEC-SUA FRONT COVER | GH75-08863B |
| QFR04 | | PMO-FRONT COVER BUSH | GH72-27856A |
| QKP01 | | MEC-KEYPAD MAIN | GH75-08864B |
| QKP02 | | MEC-KEYPAD SUB | GH75-08861B |
| QLC01 | | ELA UNIT-SGHD520 LCD | GH96-02099A |
| QME01 | | UNIT-KEY PAD | GH59-02716A |
| QME02 | | UNIT-NAVI KEY | GH59-02717A |
| QMO01 | | MOTOR DC-SPHV8400 | GH31-00187A |
| QMP01 | | PBA MAIN-SGHD520 | GH92-02481A |
| QPC01 | | MEA-SLIDE FPCB KIT | GH97-05579A |
| QRF01 | | PMO-COVER RF | GH72-29405B |
| QSH01 | | NDC-SHIELD CAN | GH71-05961A |
| QSP01 | | SPEAKER | 3001-001906 |
| QVK01 | | UNIT-VOLUME KEY | GH59-02798A |
| QVO01 | | MEC-KEY VOLUME | GH75-08277A |
| QRE01 | | MEC-SUA REAR COVER | GH75-08865B |
| | QIF01 | PMO-IF COVER | GH72-27858B |
| QFL01 | | MEC-SUA SLIDE LOW HINGE | GH75-08859B |
| | QCR32 | SCREW-MACHINE | 6001-001700 |
| | QCR47 | SCREW-MACHINE | 6001-001695 |
| | QFL02 | MEC-SLIDE LOWER | GH75-08860B |
| | QHI01 | MEC-HINGE | GH75-09414A |
| QFU01 | | MEC-SUA SLIDE UPPER | GH75-08857B |
| | QMI03 | RMO-MIC HOLDER | GH73-05704A |

| Discription | SEC CODE |
|-------------------------------|-------------|
| BAG PE | 6902-000297 |
| CBF INTERFACE-DATA LINK CABLE | GH39-00444A |
| ADAPTOR-SGHD800 TA(EU) | GH44-01060A |
| S/W CD-SAMSUNGPCSTUDIO 3.0 | GH46-00215A |
| EARPHONE-STEREO HEADSET | GH59-02499A |
| LABEL(P)-IMEI | GH68-01335D |
| LABEL(P)-WATER SOAK | GH68-02026A |
| LABEL(P)-WATER SOAK | GH68-02026A |
| MANUAL-SFC CARD | GH68-07937A |
| MANUAL USERS-EU FRENCH | GH68-09205A |
| LABEL(P)-MAIN (EU) | GH68-09251A |
| MANUAL USERS-EU DUTCH | GH68-09509A |
| CUSHION-CASE TA2 MA2 | GH69-03632A |
| BOX(P)-UNIT MAIN (EU) | GH69-03635A |
| MPR-BOHO VINYL LCD CONN | GH74-15350A |
| MPR-TAPE REMOVE LCD | GH74-18286A |
| MPR-VINYL BOHO MAIN | GH74-19951A |
| MPR-TAPE GASKET MAIN FPC | GH74-21361A |
| MPR-TAPE NAVI CONN BTM | GH74-21362A |
| MPR-TAPE CAMERA CONN | GH74-21364A |
| MPR-TAPE LCD CONN C | GH74-21365A |
| MPR-TAPE NAVI KEY CONN | GH74-21366A |
| MPR-TAPE MAIN CONN C | GH74-21367A |
| MPR-TAPE MAIN CONN A | GH74-21368A |
| MPR-TAPE LCD CONN D | GH74-21369A |
| MPR-CUSHION NAVI KEY | GH74-21626A |
| MPR-CUSHION LCD BACK | GH74-21627A |
| MPR-VINYL BOHO SUB KEY | GH74-22225A |
| | |

6. MAIN Electrical Parts List

| SEC CODE | Design LOC | Discription | STATUS |
|-------------|------------|-----------------|--------|
| 4202-001095 | ANT602 | ANTENNA-CHIP | SA |
| 4302-001201 | BAT100 | BATTERY-LI(2ND) | SA |
| 3711-006025 | BTC502 | HEADER-BATTERY | SA |
| 2203-006194 | C100 | C-CER,CHIP | SA |
| 2203-006194 | C101 | C-CER,CHIP | SA |
| 2203-006423 | C102 | C-CER,CHIP | SA |
| 2203-006423 | C103 | C-CER,CHIP | SA |
| 2203-006324 | C104 | C-CER,CHIP | SA |
| 2203-006562 | C105 | C-CER,CHIP | SA |
| 2203-006562 | C106 | C-CER,CHIP | SA |
| 2203-006562 | C107 | C-CER,CHIP | SA |
| 2203-006562 | C108 | C-CER,CHIP | SA |
| 2203-006562 | C109 | C-CER,CHIP | SA |
| 2203-006562 | C110 | C-CER,CHIP | SA |
| 2203-006562 | C111 | C-CER,CHIP | SA |
| 2203-005736 | C112 | C-CER,CHIP | SA |
| 2203-006648 | C113 | C-CER,CHIP | SA |
| 2203-006194 | C114 | C-CER,CHIP | SA |
| 2203-001405 | C115 | C-CER,CHIP | SA |
| 2203-006562 | C116 | C-CER,CHIP | SA |
| 2203-006423 | C117 | C-CER,CHIP | SA |
| 2203-006121 | C118 | C-CER,CHIP | SA |
| 2203-006423 | C119 | C-CER,CHIP | SA |
| 2203-005682 | C120 | C-CER,CHIP | SA |
| 2203-005682 | C121 | C-CER,CHIP | SA |
| 2203-005729 | C122 | C-CER,CHIP | SA |
| 2203-006257 | C124 | C-CER,CHIP | SA |
| 2203-006562 | C125 | C-CER,CHIP | SA |
| 2203-006423 | C126 | C-CER,CHIP | SA |
| 2203-006562 | C128 | C-CER,CHIP | SA |
| 2203-006562 | C129 | C-CER,CHIP | SA |
| 2203-006825 | C130 | C-CER,CHIP | SA |
| 2203-006562 | C131 | C-CER,CHIP | SA |
| 2203-006825 | C132 | C-CER,CHIP | SA |
| 2203-006562 | C135 | C-CER,CHIP | SA |
| 2203-006423 | C136 | C-CER,CHIP | SA |
| 2203-006348 | C137 | C-CER,CHIP | SA |
| 2203-006324 | C138 | C-CER,CHIP | SA |
| 2203-006194 | C200 | C-CER,CHIP | SA |
| 2203-006194 | C201 | C-CER,CHIP | SA |
| 2203-006423 | C202 | C-CER,CHIP | SA |
| 2203-006423 | C203 | C-CER,CHIP | SA |

| SEC CODE | Design LOC | Discription | STATUS |
|-------------|------------|-------------|--------|
| 2203-006423 | C204 | C-CER,CHIP | SA |
| 2203-006194 | C205 | C-CER,CHIP | SA |
| 2203-006423 | C206 | C-CER,CHIP | SA |
| 2203-006194 | C207 | C-CER,CHIP | SA |
| 2203-006423 | C208 | C-CER,CHIP | SA |
| 2203-005727 | C209 | C-CER,CHIP | SA |
| 2203-005727 | C210 | C-CER,CHIP | SA |
| 2203-000254 | C211 | C-CER,CHIP | SA |
| 2203-005806 | C212 | C-CER,CHIP | SA |
| 2203-005806 | C213 | C-CER,CHIP | SA |
| 2203-006423 | C215 | C-CER,CHIP | SA |
| 2203-006194 | C216 | C-CER,CHIP | SA |
| 2203-006194 | C217 | C-CER,CHIP | SA |
| 2203-006423 | C218 | C-CER,CHIP | SA |
| 2203-006562 | C300 | C-CER,CHIP | SA |
| 2203-006562 | C301 | C-CER,CHIP | SA |
| 2203-006423 | C302 | C-CER,CHIP | SA |
| 2203-006562 | C303 | C-CER,CHIP | SA |
| 2203-006423 | C304 | C-CER,CHIP | SA |
| 2203-006305 | C305 | C-CER,CHIP | SA |
| 2203-006305 | C306 | C-CER,CHIP | SA |
| 2203-006562 | C309 | C-CER,CHIP | SA |
| 2203-006423 | C312 | C-CER,CHIP | SA |
| 2203-006324 | C313 | C-CER,CHIP | SA |
| 2203-006423 | C314 | C-CER,CHIP | SA |
| 2203-006379 | C315 | C-CER,CHIP | SA |
| 2203-006423 | C316 | C-CER,CHIP | SA |
| 2203-006562 | C317 | C-CER,CHIP | SA |
| 2203-006648 | C318 | C-CER,CHIP | SA |
| 2203-005806 | C319 | C-CER,CHIP | SA |
| 2203-006423 | C320 | C-CER,CHIP | SA |
| 2203-000654 | C321 | C-CER,CHIP | SA |
| 2203-006423 | C322 | C-CER,CHIP | SA |
| 2203-006423 | C326 | C-CER,CHIP | SA |
| 2203-006423 | C327 | C-CER,CHIP | SA |
| 2203-002709 | C328 | C-CER,CHIP | SA |
| 2203-006423 | C330 | C-CER,CHIP | SA |
| 2203-006423 | C331 | C-CER,CHIP | SA |
| 2203-006668 | C332 | C-CER,CHIP | SA |
| 2203-006423 | C333 | C-CER,CHIP | SA |
| 2203-006423 | C342 | C-CER,CHIP | SA |
| 2203-006562 | C343 | C-CER,CHIP | SA |

| SEC CODE | Design LOC | Discription | STATUS |
|-------------|------------|-------------|--------|
| 2203-006562 | C344 | C-CER,CHIP | SA |
| 2203-006260 | C347 | C-CER,CHIP | SA |
| 2203-006260 | C348 | C-CER,CHIP | SA |
| 2203-006348 | C400 | C-CER,CHIP | SA |
| 2203-006423 | C401 | C-CER,CHIP | SA |
| 2203-000854 | C403 | C-CER,CHIP | SA |
| 2203-000854 | C404 | C-CER,CHIP | SA |
| 2203-006562 | C406 | C-CER,CHIP | SA |
| 2203-006423 | C407 | C-CER,CHIP | SA |
| 2203-005682 | C408 | C-CER,CHIP | SA |
| 2203-005682 | C409 | C-CER,CHIP | SA |
| 2203-005682 | C410 | C-CER,CHIP | SA |
| 2203-005682 | C411 | C-CER,CHIP | SA |
| 2203-006257 | C413 | C-CER,CHIP | SA |
| 2203-005682 | C414 | C-CER,CHIP | SA |
| 2203-006626 | C415 | C-CER,CHIP | SA |
| 2203-005682 | C416 | C-CER,CHIP | SA |
| 2203-005683 | C417 | C-CER,CHIP | SA |
| 2203-006348 | C418 | C-CER,CHIP | SA |
| 2203-005682 | C419 | C-CER,CHIP | SA |
| 2203-006626 | C420 | C-CER,CHIP | SA |
| 2203-005682 | C421 | C-CER,CHIP | SA |
| 2203-006348 | C422 | C-CER,CHIP | SA |
| 2203-005682 | C423 | C-CER,CHIP | SA |
| 2203-006260 | C424 | C-CER,CHIP | SA |
| 2203-006260 | C426 | C-CER,CHIP | SA |
| 2203-005682 | C429 | C-CER,CHIP | SA |
| 2203-006825 | C432 | C-CER,CHIP | SA |
| 2203-006825 | C433 | C-CER,CHIP | SA |
| 2203-005736 | C500 | C-CER,CHIP | SA |
| 2203-006048 | C502 | C-CER,CHIP | SA |
| 2203-006562 | C503 | C-CER,CHIP | SA |
| 2203-006257 | C505 | C-CER,CHIP | SA |
| 2007-008055 | C506 | R-CHIP | SA |
| 2203-005682 | C507 | C-CER,CHIP | SA |
| 2203-006423 | C508 | C-CER,CHIP | SA |
| 2203-006423 | C509 | C-CER,CHIP | SA |
| 2203-006423 | C510 | C-CER,CHIP | SA |
| 2203-006423 | C511 | C-CER,CHIP | SA |
| 2203-005736 | C512 | C-CER,CHIP | SA |
| 2203-005736 | C513 | C-CER,CHIP | SA |
| 2203-006648 | C542 | C-CER,CHIP | SA |

| SEC CODE | Design LOC | Discription | STATUS |
|-------------|------------|----------------|--------|
| 2203-006194 | C543 | C-CER,CHIP | SA |
| 2203-005682 | C600 | C-CER,CHIP | SA |
| 2203-005736 | C601 | C-CER,CHIP | SA |
| 2203-006194 | C602 | C-CER,CHIP | SA |
| 2203-005806 | C603 | C-CER,CHIP | SA |
| 2203-006556 | C604 | C-CER,CHIP | SA |
| 2203-005682 | C605 | C-CER,CHIP | SA |
| 2203-006423 | C606 | C-CER,CHIP | SA |
| 2203-006648 | C607 | C-CER,CHIP | SA |
| 2203-006423 | C608 | C-CER,CHIP | SA |
| 2203-006194 | C609 | C-CER,CHIP | SA |
| 2203-005792 | C610 | C-CER,CHIP | SA |
| 2203-005792 | C611 | C-CER,CHIP | SA |
| 2203-006318 | C612 | C-CER,CHIP | SA |
| 2203-006318 | C613 | C-CER,CHIP | SA |
| 2203-006318 | C614 | C-CER,CHIP | SA |
| 2203-006318 | C615 | C-CER,CHIP | SA |
| 2203-005736 | C616 | C-CER,CHIP | SA |
| 2203-005736 | C617 | C-CER,CHIP | SA |
| 2203-005736 | C618 | C-CER,CHIP | SA |
| 2203-006556 | C619 | C-CER,CHIP | SA |
| 2203-006318 | C620 | C-CER,CHIP | SA |
| 2203-006423 | C622 | C-CER,CHIP | SA |
| 2203-006194 | C623 | C-CER,CHIP | SA |
| 2203-006423 | C625 | C-CER,CHIP | SA |
| 2203-005682 | C626 | C-CER,CHIP | SA |
| 2203-006620 | C627 | C-CER,CHIP | SNA |
| 2203-005682 | C628 | C-CER,CHIP | SA |
| 2203-005682 | C629 | C-CER,CHIP | SA |
| 2203-005682 | C630 | C-CER,CHIP | SA |
| 2203-006194 | C631 | C-CER,CHIP | SA |
| 2203-006423 | C632 | C-CER,CHIP | SA |
| 2203-006324 | C633 | C-CER,CHIP | SA |
| 2203-005682 | C635 | C-CER,CHIP | SA |
| 2203-005682 | C636 | C-CER,CHIP | SA |
| 2203-006324 | C637 | C-CER,CHIP | SA |
| 2203-006305 | C638 | C-CER,CHIP | SA |
| 2203-005725 | C639 | C-CER,CHIP | SA |
| 2203-006562 | C640 | C-CER,CHIP | SA |
| 2203-006562 | C641 | C-CER,CHIP | SA |
| 2203-005158 | C642 | C-CER,CHIP | SA |
| 2901-001256 | F101 | FILTER-EMI SMD | SA |

| SEC CODE | Design LOC | Discription | STATUS |
|-------------|------------|-----------------------|--------|
| 2901-001337 | F500 | FILTER-EMI/ESD | SA |
| 2901-001337 | F501 | FILTER-EMI/ESD | SA |
| 2901-001337 | F502 | FILTER-EMI/ESD | SA |
| 2901-001337 | F503 | FILTER-EMI/ESD | SA |
| 2901-001337 | F504 | FILTER-EMI/ESD | SA |
| 2901-001337 | F505 | FILTER-EMI/ESD | SA |
| 2901-001337 | F506 | FILTER-EMI/ESD | SA |
| 2904-001592 | F600 | FILTER-SAW | SA |
| 2904-001599 | F601 | FILTER-SAW | SA |
| 2904-001601 | F602 | FILTER-SAW | SA |
| 3711-006109 | HDC500 | HEADER-BOARD TO BOARD | SNA |
| 3710-002306 | IFC503 | SOCKET-INTERFACE | SA |
| 2703-002749 | L100 | INDUCTOR-SMD | SA |
| 2703-002734 | L101 | INDUCTOR-SMD | SA |
| 2007-000171 | L300 | R-CHIP | SA |
| 2007-000171 | L301 | R-CHIP | SA |
| 3301-001729 | L302 | BEAD-SMD | SA |
| 2703-002485 | L600 | INDUCTOR-SMD | SA |
| 2703-002544 | L601 | INDUCTOR-SMD | SA |
| 2703-002608 | L602 | INDUCTOR-SMD | SA |
| 2703-002917 | L603 | INDUCTOR-SMD | SA |
| 2703-002917 | L604 | INDUCTOR-SMD | SA |
| 2703-002558 | L605 | INDUCTOR-SMD | SA |
| 2703-002313 | L607 | INDUCTOR-SMD | SA |
| 2801-004466 | OSC200 | CRYSTAL-SMD | SA |
| 2801-004225 | OSC300 | CRYSTAL-SMD | SA |
| 2801-004455 | OSC600 | CRYSTAL-SMD | SA |
| 2801-004426 | OSC601 | CRYSTAL-SMD | SA |
| 1201-002278 | PAM601 | IC-POWER AMP | SA |
| 0504-000168 | Q100 | TR-DIGITAL | SA |
| 2007-008588 | R100 | R-CHIP | SA |
| 2007-009166 | R101 | R-CHIP | SA |
| 2007-008419 | R102 | R-CHIP | SA |
| 2007-008055 | R103 | R-CHIP | SA |
| 2007-000142 | R104 | R-CHIP | SA |
| 2007-008483 | R105 | R-CHIP | SA |
| 2007-008052 | R106 | R-CHIP | SA |
| 2007-009167 | R107 | R-CHIP | SA |
| 2007-008516 | R108 | R-CHIP | SA |
| 2007-008483 | R109 | R-CHIP | SA |
| 2007-008478 | R110 | R-CHIP | SA |
| 2007-009115 | R111 | R-CHIP | SA |

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| 2007-009115 | R112 | R-CHIP | SA |
| 2007-009212 | R115 | R-CHIP | SA |
| 2007-000172 | R201 | R-CHIP | SA |
| 2007-008531 | R202 | R-CHIP | SA |
| 2007-008806 | R203 | R-CHIP | SA |
| 2007-000162 | R204 | R-CHIP | SA |
| 2007-008055 | R205 | R-CHIP | SA |
| 2007-008483 | R206 | R-CHIP | SA |
| 2007-008531 | R207 | R-CHIP | SA |
| 2007-008055 | R208 | R-CHIP | SA |
| 2007-000171 | R210 | R-CHIP | SA |
| 2007-009084 | R300 | R-CHIP | SA |
| 2007-000157 | R301 | R-CHIP | SA |
| 2007-000171 | R302 | R-CHIP | SA |
| 2007-008542 | R304 | R-CHIP | SA |
| 2007-008531 | R308 | R-CHIP | SA |
| 2007-008483 | R309 | R-CHIP | SA |
| 2007-008516 | R312 | R-CHIP | SA |
| 2007-008483 | R313 | R-CHIP | SA |
| 2007-008051 | R314 | R-CHIP | SA |
| 2007-009166 | R315 | R-CHIP | SA |
| 2007-008055 | R316 | R-CHIP | SA |
| 2007-009166 | R317 | R-CHIP | SA |
| 2007-000138 | R319 | R-CHIP | SA |
| 2007-009084 | R320 | R-CHIP | SA |
| 2007-009169 | R321 | R-CHIP | SA |
| 2007-009169 | R322 | R-CHIP | SA |
| 2007-007310 | R323 | R-CHIP | SA |
| 2007-008210 | R326 | R-CHIP | SA |
| 2007-008210 | R327 | R-CHIP | SA |
| 2203-006091 | R328 | C-CER,CHIP | SA |
| 2203-006091 | R329 | C-CER,CHIP | SA |
| 2007-009084 | R330 | R-CHIP | SA |
| 2007-009084 | R331 | R-CHIP | SA |
| 2007-000171 | R400 | R-CHIP | SA |
| 2007-001292 | R403 | R-CHIP | SA |
| 2007-001292 | R406 | R-CHIP | SA |
| 2007-008420 | R409 | R-CHIP | SA |
| 2007-008420 | R410 | R-CHIP | SA |
| 2007-001119 | R411 | R-CHIP | SA |
| 2007-007528 | R412 | R-CHIP | SA |
| 2007-007528 | R413 | R-CHIP | SA |

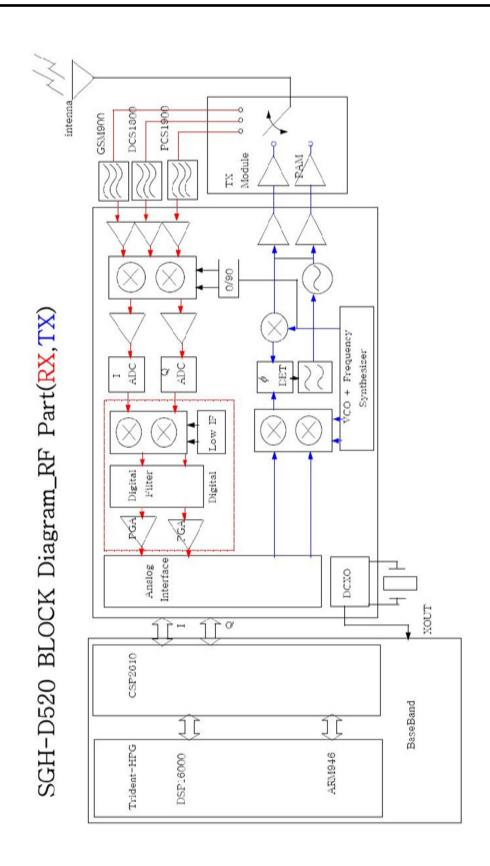
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| 2007-007590 | R414 | R-CHIP | SA |
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| 2007-007107 | R418 | R-CHIP | SA |
| 2007-007107 | R419 | R-CHIP | SA |
| 2007-007142 | R420 | R-CHIP | SA |
| 2007-007142 | R421 | R-CHIP | SA |
| 2007-007798 | R426 | R-CHIP | SA |
| 2007-007798 | R427 | R-CHIP | SA |
| 2007-007528 | R428 | R-CHIP | SA |
| 2007-007588 | R429 | R-CHIP | SA |
| 2007-001119 | R430 | R-CHIP | SA |
| 2007-008542 | R431 | R-CHIP | SA |
| 2007-008055 | R432 | R-CHIP | SA |
| 2007-008055 | R433 | R-CHIP | SA |
| 2007-000171 | R434 | R-CHIP | SA |
| 2007-000171 | R435 | R-CHIP | SA |
| 2007-000171 | R436 | R-CHIP | SA |
| 2007-000171 | R437 | R-CHIP | SA |
| 2007-008055 | R500 | R-CHIP | SA |
| 2007-008419 | R501 | R-CHIP | SA |
| 2007-008419 | R502 | R-CHIP | SA |
| 2007-008419 | R503 | R-CHIP | SA |
| 2007-008055 | R504 | R-CHIP | SA |
| 2007-008419 | R505 | R-CHIP | SA |
| 2007-008786 | R506 | R-CHIP | SA |
| 2007-008786 | R507 | R-CHIP | SA |
| 2007-008806 | R508 | R-CHIP | SA |
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| 2007-008806 | R511 | R-CHIP | SA |
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| 2007-008806 | R514 | R-CHIP | SA |
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| 2007-008806 | R516 | R-CHIP | SA |
| 2007-008806 | R517 | R-CHIP | SA |
| 2007-008806 | R518 | R-CHIP | SA |
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| 2007-008419 | R522 | R-CHIP | SA |
| 2007-008419 | R523 | R-CHIP | SA |

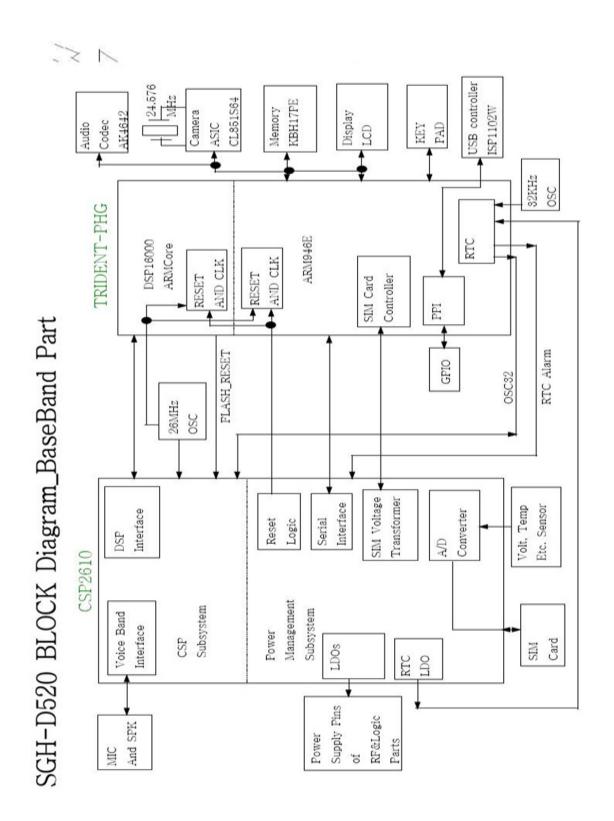
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| 2007-008045 | R524 | R-CHIP | SA |
| 2007-008806 | R525 | R-CHIP | SA |
| 2007-008483 | R526 | R-CHIP | SA |
| 2007-008548 | R600 | R-CHIP | SA |
| 2007-008587 | R601 | R-CHIP | SA |
| 2007-008045 | R602 | R-CHIP | SA |
| 2007-008516 | R603 | R-CHIP | SA |
| 2007-008516 | R605 | R-CHIP | SA |
| 2007-008542 | R606 | R-CHIP | SA |
| 2007-000171 | R634 | R-CHIP | SA |
| 3705-001358 | RFS600 | CONNECTOR-COAXIAL | SA |
| 3709-001421 | SIM100 | CONNECTOR-CARD EDGE | SA |
| 3708-002170 | SLC504 | CONNECTOR-FPC/FFC/PIC | SA |
| 2404-001381 | TA100 | C-TA,CHIP | SA |
| 2404-001339 | TA101 | C-TA,CHIP | SA |
| 2404-001381 | TA103 | C-TA,CHIP | SA |
| 2404-001375 | TA200 | C-TA,CHIP | SA |
| 2404-001225 | TA300 | C-TA,CHIP | SA |
| 2404-001353 | TA301 | C-TA,CHIP | SA |
| 2404-001353 | TA302 | C-TA,CHIP | SA |
| 2404-001339 | TA303 | C-TA,CHIP | SA |
| 2404-001381 | TA304 | C-TA,CHIP | SA |
| 2404-001381 | TA305 | C-TA,CHIP | SA |
| 2404-001240 | TA400 | C-TA,CHIP | SA |
| 2404-001240 | TA401 | C-TA,CHIP | SA |
| 2404-001225 | TA402 | C-TA,CHIP | SA |
| 2404-001225 | TA403 | C-TA,CHIP | SA |
| 2404-001352 | TA404 | C-TA,CHIP | SA |
| 2404-001377 | TA405 | C-TA,CHIP | SA |
| 2404-001411 | TA500 | C-TA,CHIP | SA |
| 2404-001411 | TA503 | C-TA,CHIP | SA |
| 2404-001374 | TA600 | C-TA,CHIP | SA |
| 1404-001165 | TH100 | THERMISTOR-NTC | SA |
| 0504-001049 | TR300 | TR-DIGITAL | SA |
| 1203-003920 | U100 | IC-POWER SUPERVISOR | SA |
| 0801-002529 | U101 | IC-CMOS LOGIC | SA |
| 1203-003109 | U102 | IC-BATTERY | SA |
| 1205-002272 | U103 | IC-TRANSCEIVER | SA |
| 1203-003523 | U104 | IC-POSI.FIXED REG. | SA |
| 1203-003428 | U105 | IC-DC/DC CONVERTER | SA |
| 1203-003434 | U106 | IC-DC/DC CONVERTER | SA |
| 1203-003523 | U107 | IC-POSI.FIXED REG. | SA |

| SEC CODE | Design LOC | Discription | STATUS |
|-------------|------------|---------------------|--------|
| 1205-002612 | U300 | IC-CODEC | SA |
| 1201-002233 | U303 | IC-AUDIO AMP | SA |
| 1001-001261 | U400 | IC-ANALOG SWITCH | SA |
| 1001-001306 | U401 | IC-ANALOG MULTIPLEX | SA |
| 1205-002683 | U600 | IC-TRANSCEIVER | SA |
| 4709-001368 | U602 | BLUETOOTH MODULE | SA |
| 1203-003432 | U603 | IC-POSI.FIXED REG. | SA |
| 1204-002309 | UCD301 | IC-MELODY | SA |
| 1205-002681 | UCD302 | IC-CODEC | SA |
| GH09-00040A | UCP200 | IC MICOM | SA |
| 1108-000024 | UME201 | IC-MCP | SA |
| 1405-001082 | V400 | VARISTOR | SA |
| 1405-001082 | VR200 | VARISTOR | SA |
| 1405-001082 | VR401 | VARISTOR | SA |
| 1405-001082 | VR402 | VARISTOR | SA |
| 1405-001082 | VR403 | VARISTOR | SA |
| 1405-001082 | VR404 | VARISTOR | SA |
| 1405-001082 | VR500 | VARISTOR | SA |
| 1405-001082 | VR501 | VARISTOR | SA |
| 1405-001082 | VR502 | VARISTOR | SA |
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| 1405-001082 | VR504 | VARISTOR | SA |
| 1405-001082 | VR505 | VARISTOR | SA |
| 1405-001082 | VR506 | VARISTOR | SA |
| 1405-001082 | VR507 | VARISTOR | SA |
| 1405-001082 | VR508 | VARISTOR | SA |
| 1405-001082 | VR509 | VARISTOR | SA |
| 1405-001082 | VR510 | VARISTOR | SA |
| 1405-001082 | VR511 | VARISTOR | SA |
| 1405-001082 | VR512 | VARISTOR | SA |
| 1405-001082 | VR513 | VARISTOR | SA |
| 1405-001082 | VR514 | VARISTOR | SA |
| 1405-001082 | VR515 | VARISTOR | SA |
| 1405-001121 | VR516 | VARISTOR | SA |
| 1405-001121 | VR517 | VARISTOR | SA |
| 1405-001121 | VR518 | VARISTOR | SA |
| 1405-001082 | VR519 | VARISTOR | SA |
| 1405-001082 | VR520 | VARISTOR | SA |
| 1405-001082 | VR521 | VARISTOR | SA |
| 1405-001082 | VR522 | VARISTOR | SA |
| 1405-001082 | VR523 | VARISTOR | SA |
| 1405-001082 | VR524 | VARISTOR | SA |

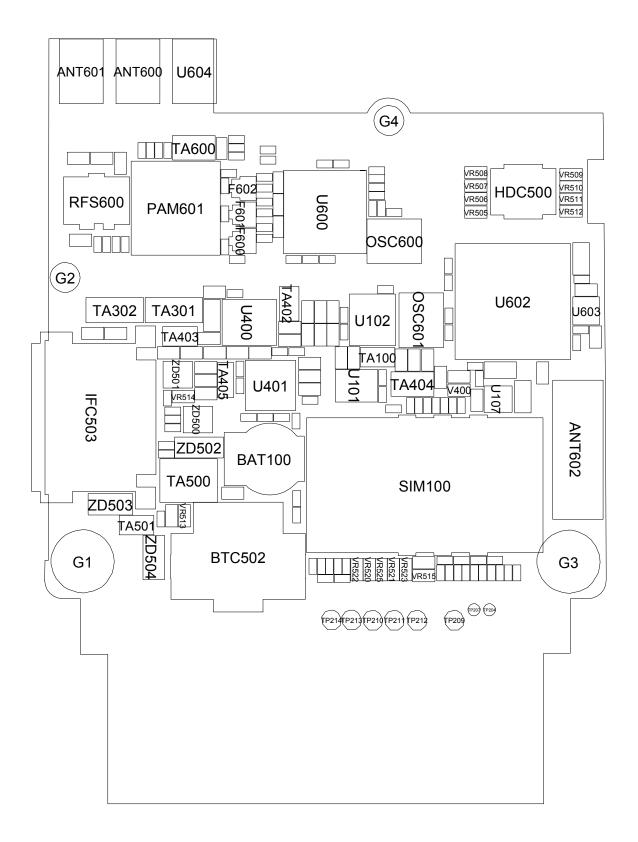
| SEC CODE | Design LOC | Discription | STATUS |
|-------------|------------|-------------|--------|
| 1405-001082 | VR525 | VARISTOR | SA |
| 1405-001121 | VR526 | VARISTOR | SA |
| 1405-001082 | VR527 | VARISTOR | SA |
| 0406-001190 | ZD500 | DIODE-TVS | SA |
| 0406-001190 | ZD501 | DIODE-TVS | SA |
| 0403-001547 | ZD502 | DIODE-ZENER | SA |
| 0403-001411 | ZD503 | DIODE-ZENER | SA |
| 0403-001427 | ZD504 | DIODE-ZENER | SA |

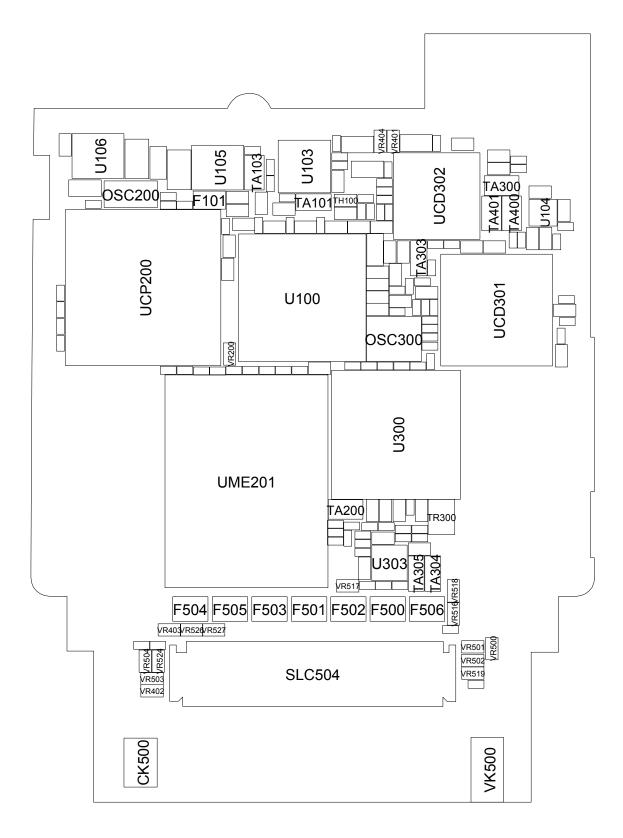
7. Block Diagrams





8. PCB Diagrams

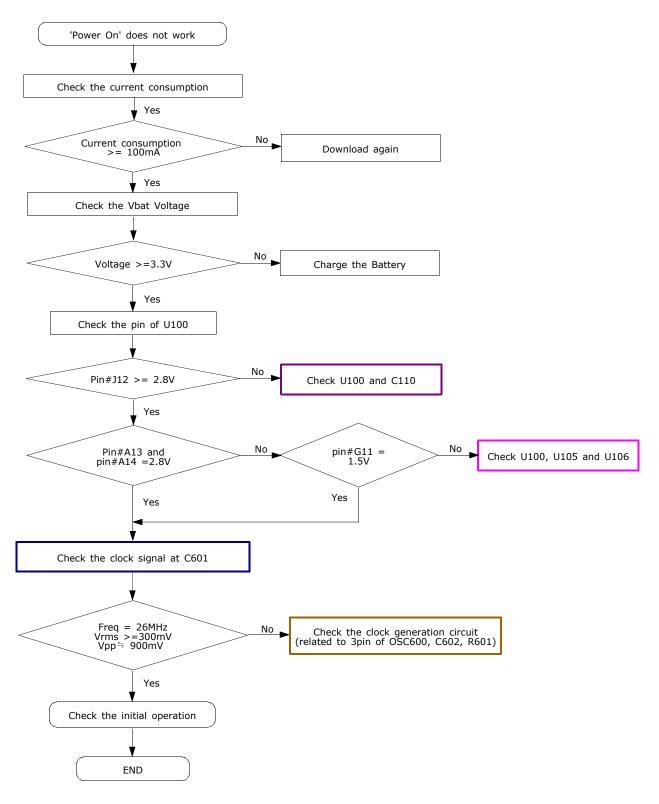


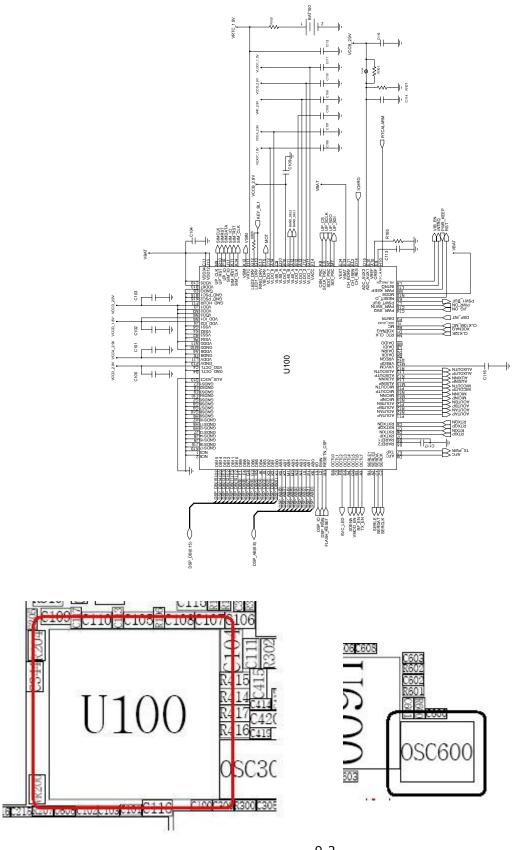


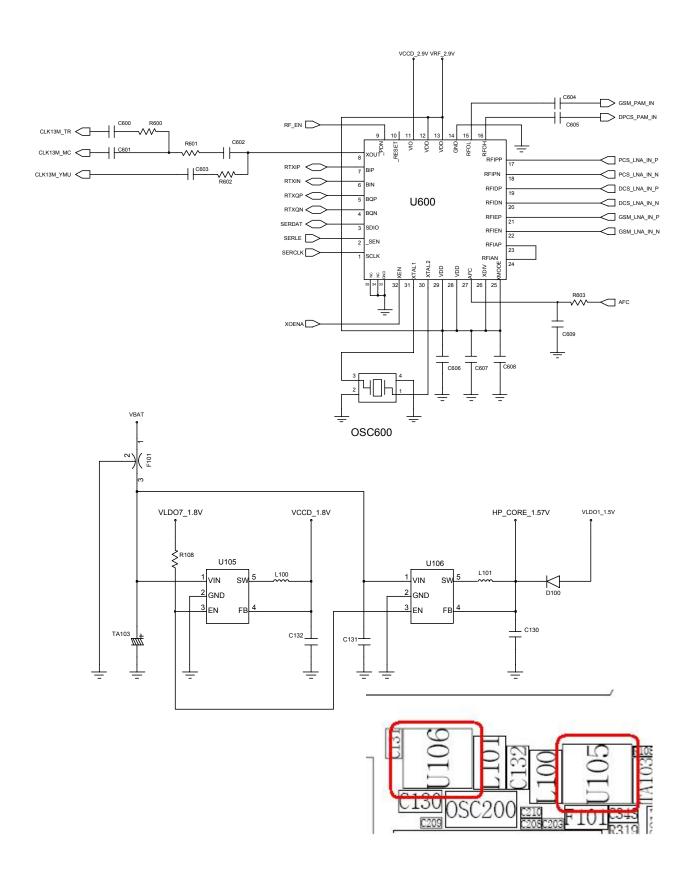
9. Flow Chart of Troubleshooting

9-1.Baseband

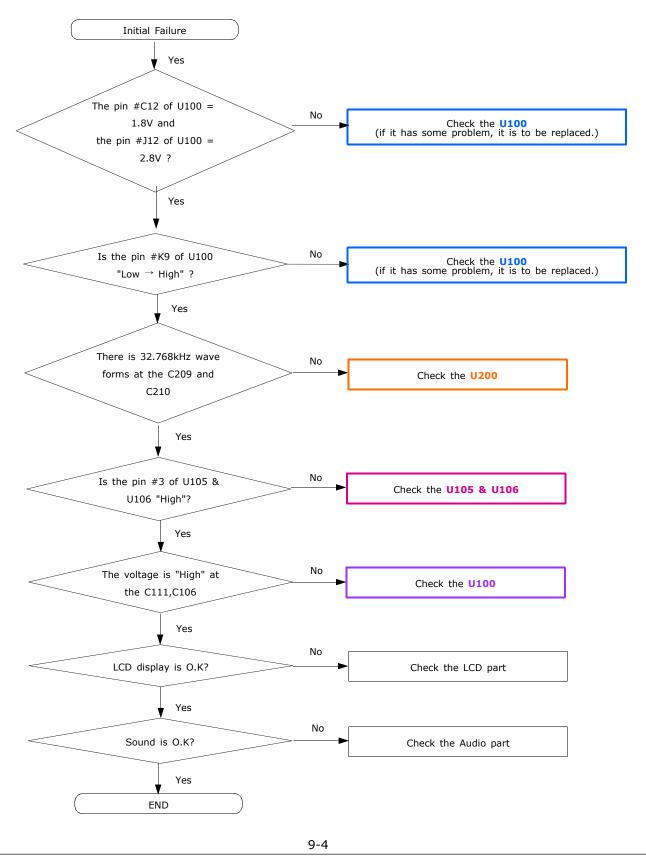
9-1-1. Power ON

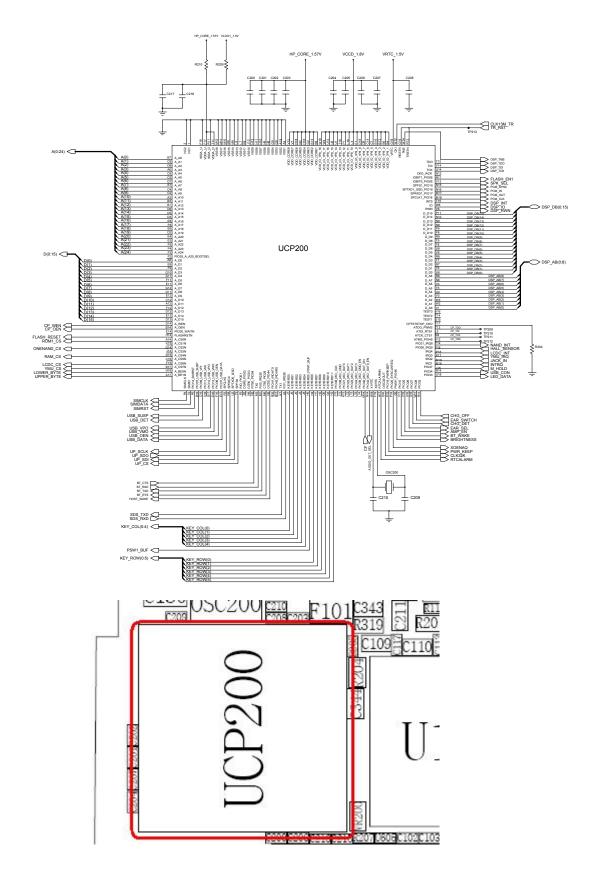




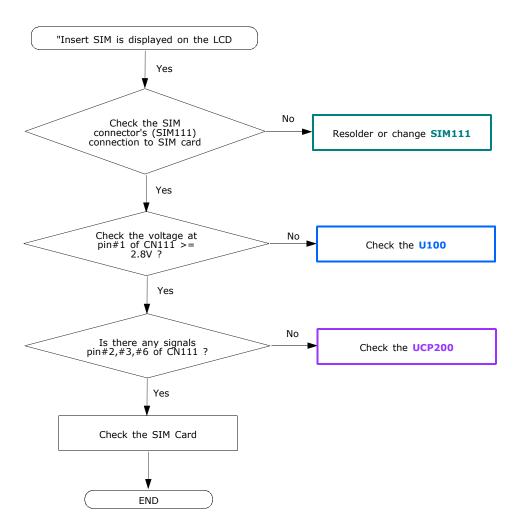


9-1-2. Initial

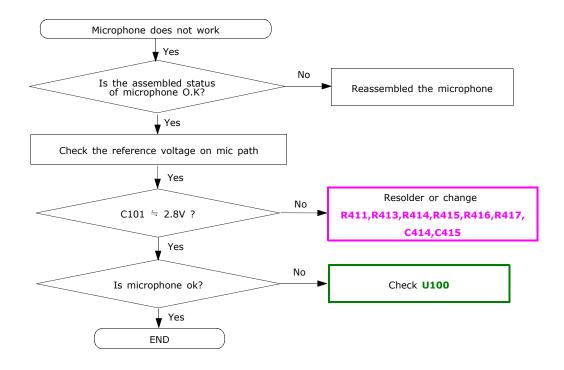


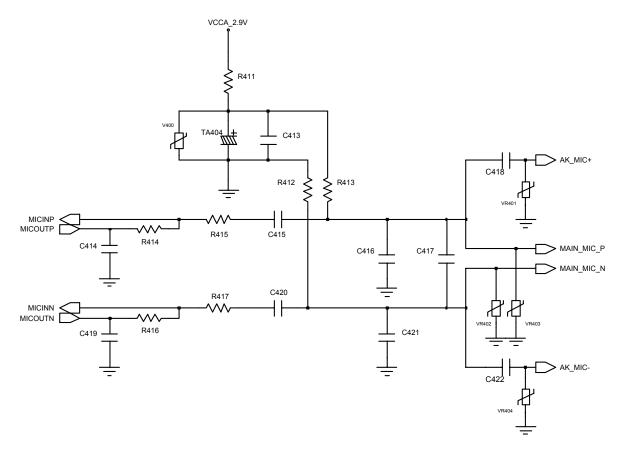


9-1-3. Sim Part

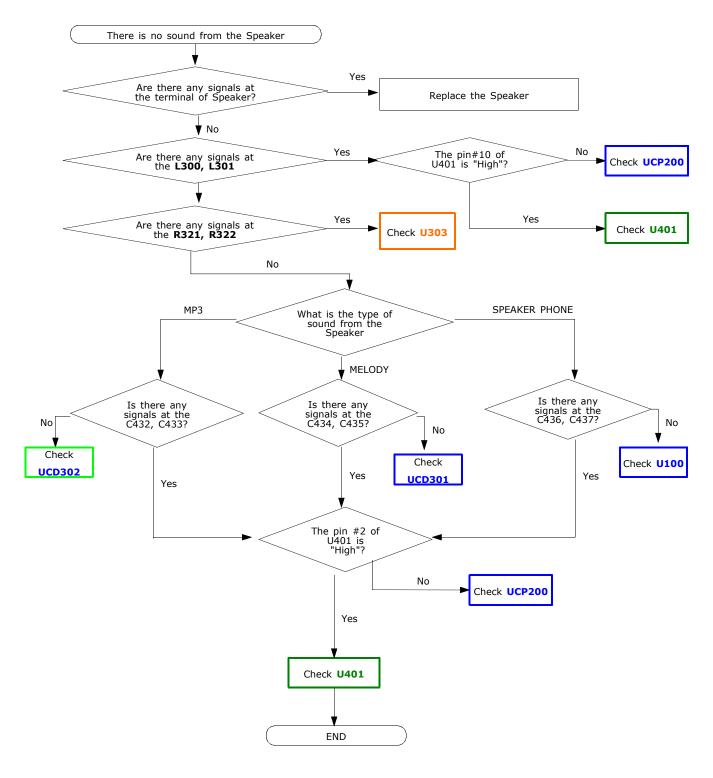


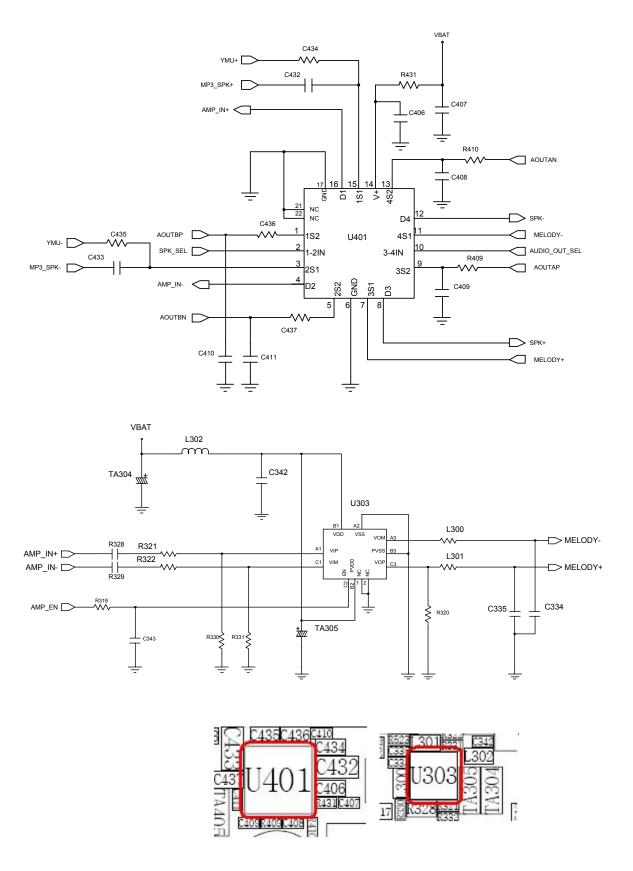
9-1-4. Microphone Part



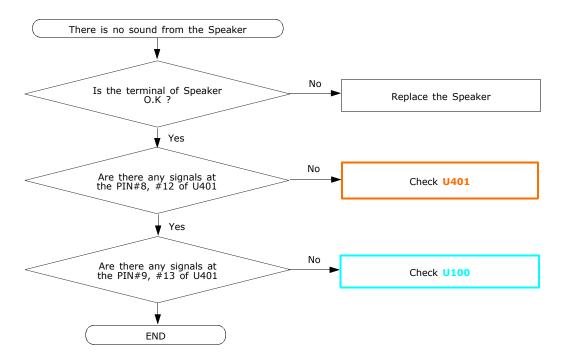


9-1-5. Speaker Part_1(MP3, SPEAKER PHONE)

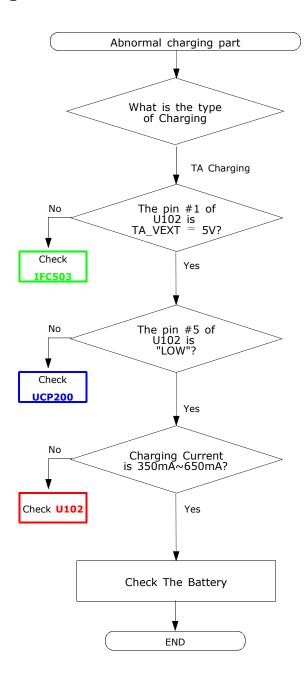


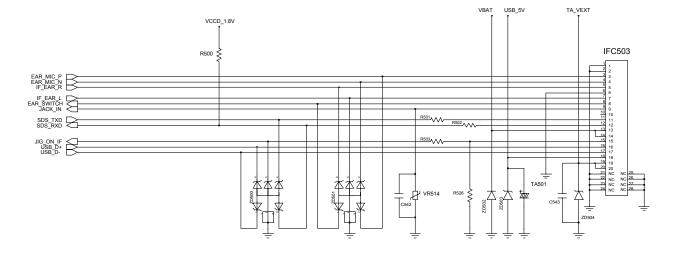


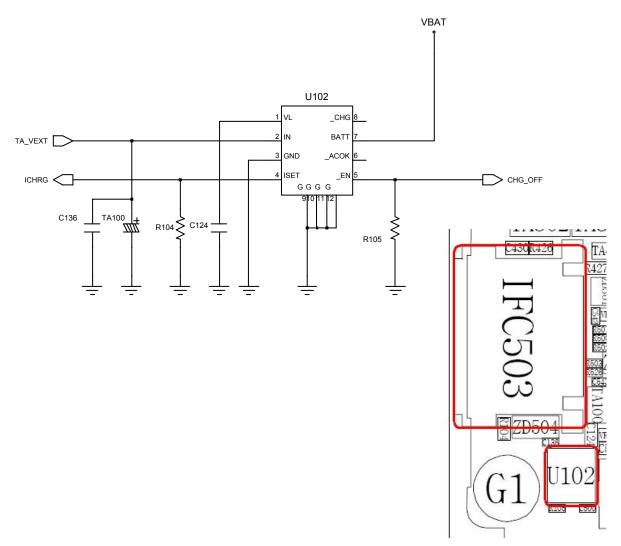
9-1-6. Speaker Part_2(RECEIVER)



9-1-7. Charging Part

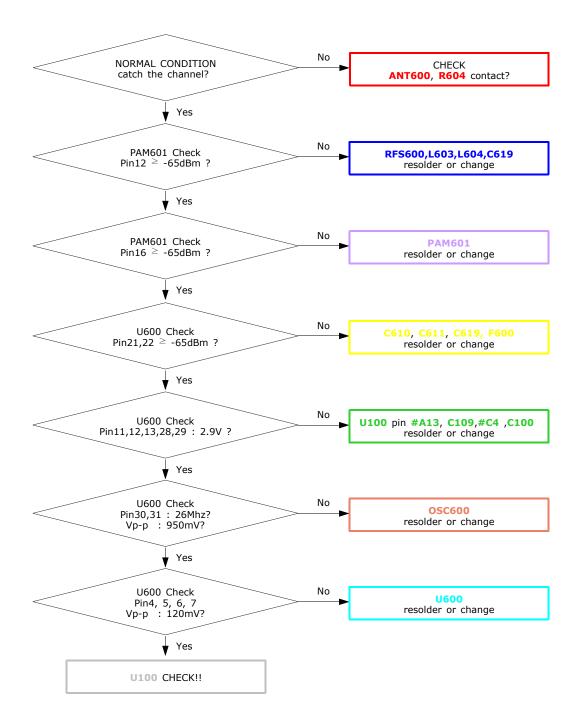


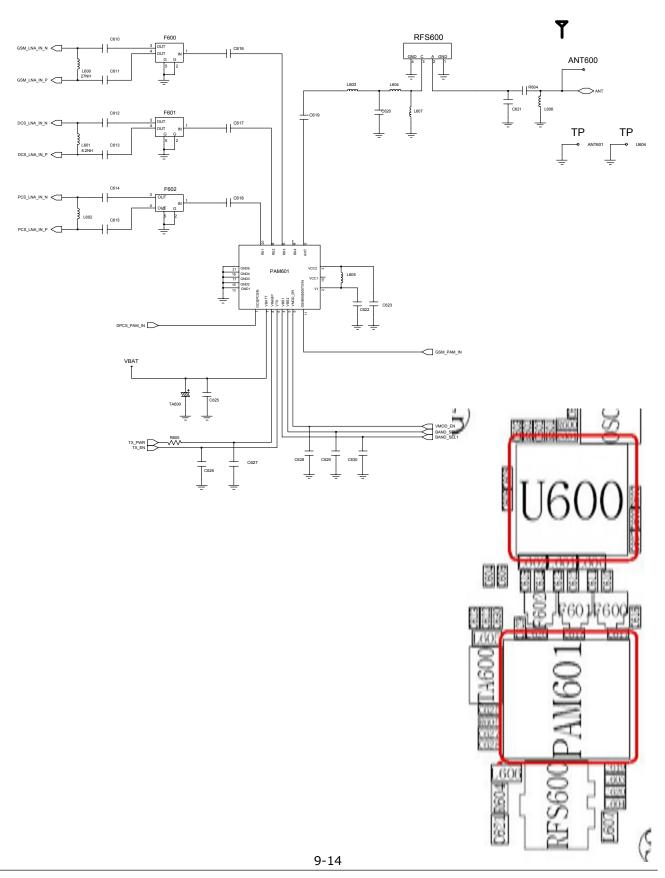




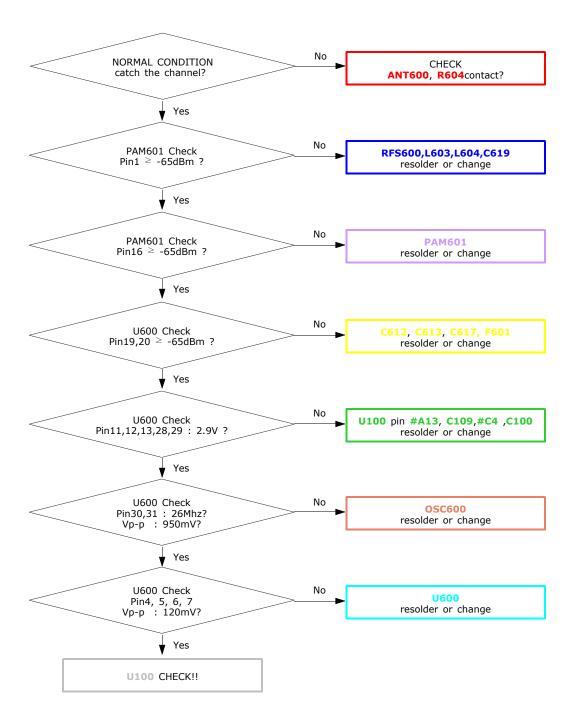
9-2. RF

9-2-1. EGSM RX

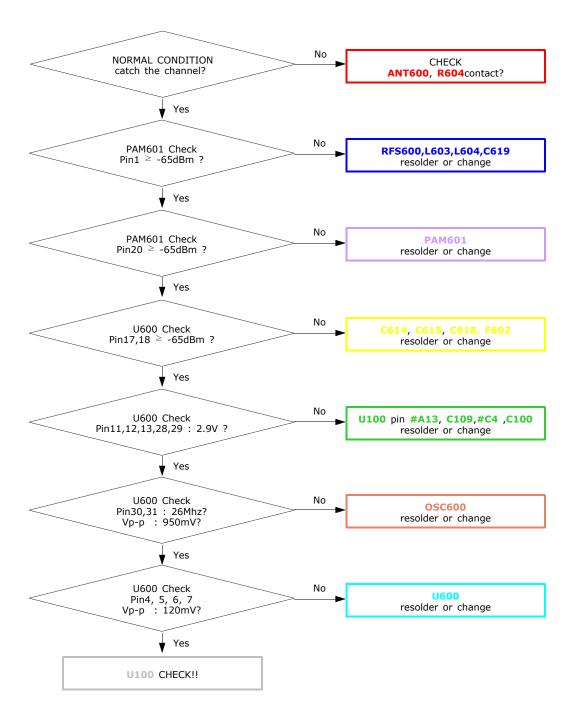




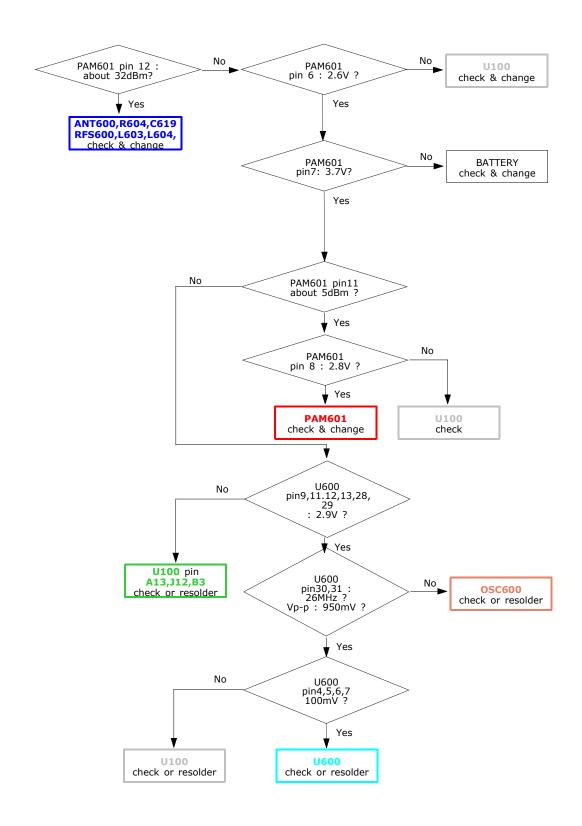
9-2-2. DCS RX



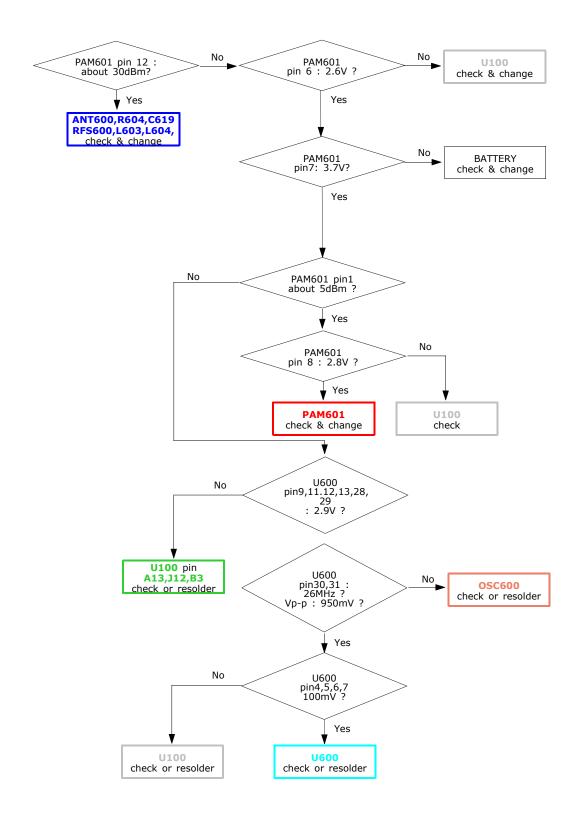
9-2-3. PCS RX



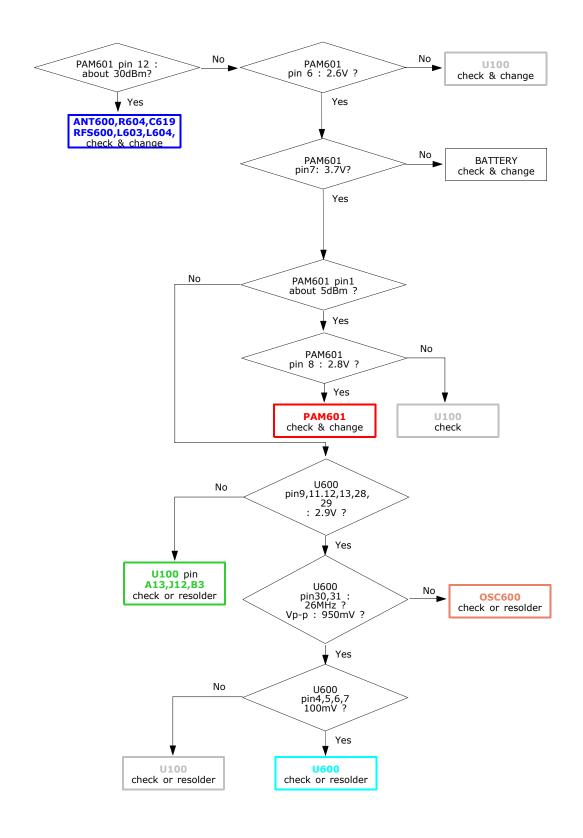
9-2-4. EGSM TX



9-2-5. DCS TX



9-2-6. PCS TX



10. Reference data

10-1. Reference Abbreviate

AAC: Advanced Audio Coding. **AVC**: Advanced Video Coding.

BER: Bit Error Rate

BPSK: Binary Phase Shift Keying

CA: Conditional Access

 ${f CDM}$: Code Division Multiplexing

C/I: Carrier to Interference

DMB: Digital Multimedia Broadcasting

EN: European Standard **ES**: Elementary Stream

ETSI: European Telecommunications Standards Institute

MPEG: Moving Picture Experts Group

PN: Pseudo-random Noise

PS: Pilot Symbol

QPSK: Quadrature Phase Shift Keying

RS: Reed-Solomon

SI : Service Information

TDM: Time Division Multiplexing

TS: Transport Stream

11. Exploded and assembling View

11-1. Cellular phone Exploded View

WARNING

■ Put on straps and gloves to remove electricity

[disassemble lower part of SET]





[disassemble left part of SET]



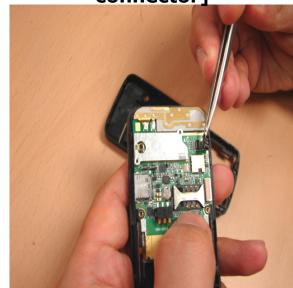
[disassembe SET]



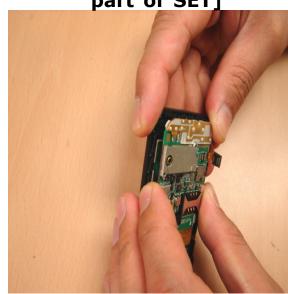
[final check]



[remove MAIN FPCB connector]



[disassemble right part of SET]



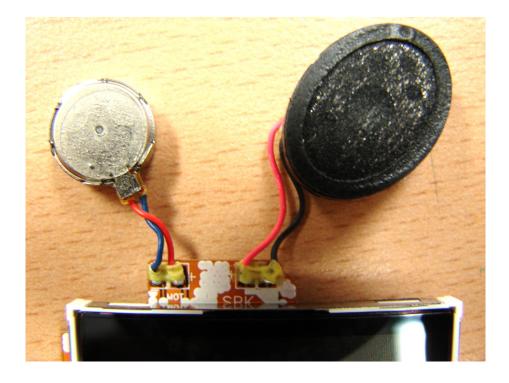
| | INSTRUMENTS TO BE USED | | | | |
|----|------------------------|------|----------|----------|--|
| NO | MATERIAL | CODE | STANDARD | Qua n | |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | - | | | | |
| 6 | | | | | |
| | | | | | |

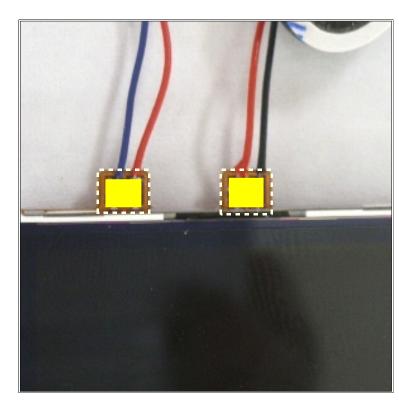
| Application | SGH-D5 | 520/D528 |
|-------------------------|--------|------------------------|
| Subject | | Work Descriction NO |
| DISASSEMBLY OF MAIN SET | | 25 |

| ED | when to modufy | what to modify |
|----|----------------|----------------|
| 1 | | |
| 2 | | |
| 3 | | |

11-2. Cellular phone assembling

| Subject | Description | Confirmation and inspection standard |
|------------|-----------------------------------|--|
| inspection | -Inspect the exterior of speaker | -check broken wires and exterior of speaker |
| inspection | -Inspect the exterior of motor | -check broken wires of motor |
| soldering | -Solder the speaker on board | -take care polarity and solder that(look at picture) |
| soldering | -Solder the motor on board | -take care polarity and solder that(look at picture) |
| glue | -apply the glue on part to solder | |





Warning

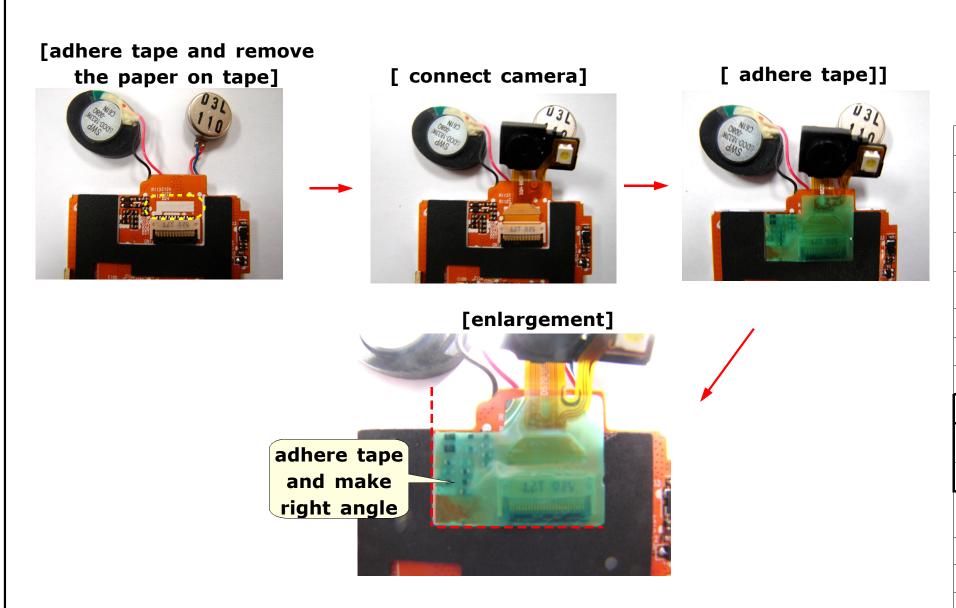
■ take care polarity of PAD when you solder speaker and receiver

| | INSTRUMENTS TO BE USED | | | | |
|----|------------------------|-----------------|--|----------|--|
| NO | MATERIAL | CODE | STANDARD | Qua n | |
| 1 | speaker | 3001- 001906 | 8ohm,88+- 2dB,800Hz | 1E/ | |
| 2 | motor | GH31- 00187A | 90mA,10~5 5Hz,- ,2.5~3.5V/ 90~150mA | 1E/ | |
| 3 | soldering ion | - | 350도~380 도 | 1E/ | |
| 4 | solder | - | SR-34 (PA TYPE) | 1E/ | |
| 5 | JIG for sodering | - | D520/D528 | 1E/ | |
| 6 | strap | - | - | - | |
| 7 | gloves | - | - | - | |
| 8 | | | | | |
| | Application | SGH- | D520/D528 | | |

| Application | SGH-D520/D528 |
|----------------------|------------------------|
| Subject | Work Description NO |
| soldering of motor a | nd speaker 1 |
| | |

| ED | date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|-------------------|--|--|
| remove tape | -adhere tape on camera FPCB and remove the paper on tape | |
| connect camera | -camera connects with LCD connector. | -insert Silt line of camera FPCB and Silt line under connector that occupy space equally |
| adhere tape | -adhere tape on upper side of connector | |



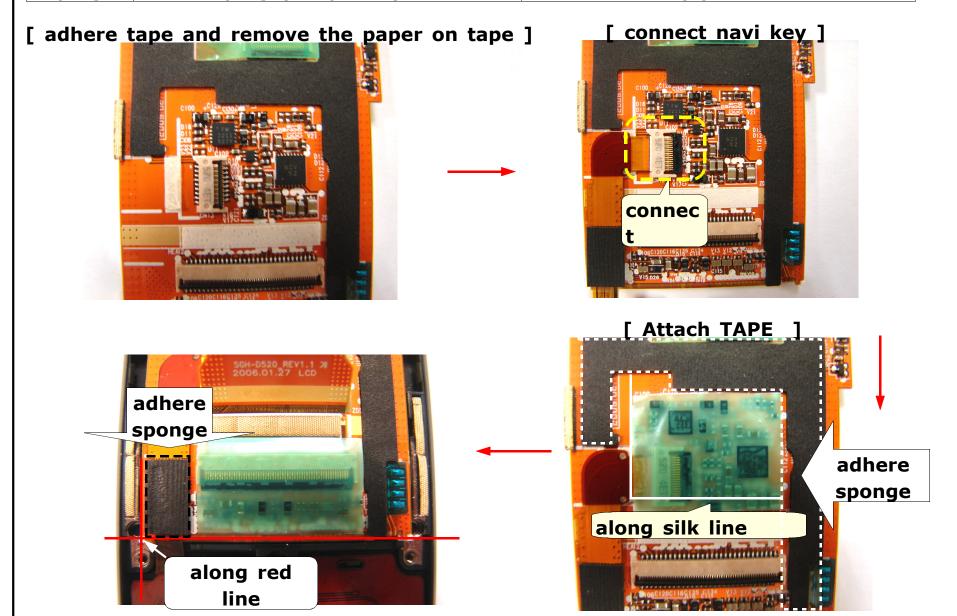
| | INSTRU | MENTS TO BE | USED | |
|------|---------------------------|-----------------|---------------------|----------|
| NO | MATERIAL | CODE | STANDARD | Qua n |
| 1 | CAMERA MODUL | GH59- 02860A | 1.5V/2.8V, 50mA | 1 |
| 2 | TAPE | GH74- 21364A | 17X9X0.085 T | 1 |
| 3 | ТАРЕ | GH74- 21362A | 7X2X0.35T | 1 |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| | Application | SGH-I | D520/D528 | |
| | Subjec | t | Work Description | NO |
| | Connection of | camera | 2 | |
| (ED) | date of Revision contents | | | |
| 1 | | | | |

2

3

| Subject | Work contents | Confirmation and inspection |
|-------------|---------------------------------------|--|
| remove | -adhere tape and remove paper on tape | |
| connect | -insert navi KEY into LCD connector | -Insert white silk and LCD connector |
| FPCB | -close black acuator | that becomes to position equally |
| adhere | -adhere tape(like picture) | |
| tape | | |
| adhere | -adhere sponge on left upper side of | -Attach via sticking page lower column |
| tape | LCD | department silk. |
| Sponge | -adhere sponge(like picture) | -Attach to the top portion via red. |

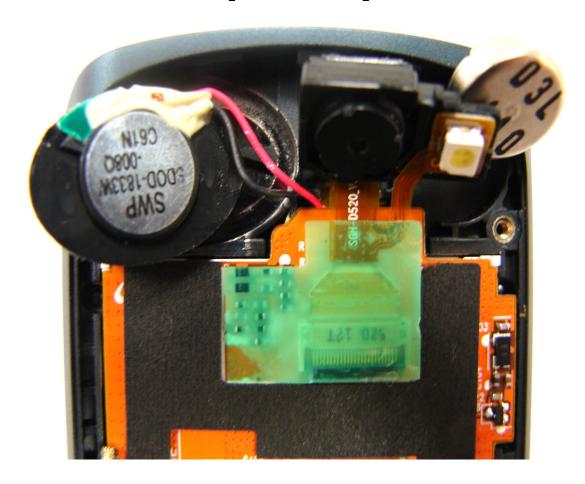
■Do to do sticking progress from sticking standard at TAPE sticking.



| INSTRUMENTS TO BE USED | | | | | |
|----------------------------|------------------|-------------------|-----------------|----------------------|----------|
| NO | MATERIAL | | CODE | STANDARD | Qua n |
| 1 | Navi KEY_FPCB | | GH59- 02717A | DC15V,1mA | 1 |
| 2 | TAP | E | GH74- 21362A | 7X2X0.35T | 1 |
| 3 | LCD SPC | NGE | GH74- 21627A | 31.5*48*0. 55t | 1 |
| 4 | TAPE | | GH74- 21362A | 7X2X0.35T | 1 |
| 5 | FPCB SPONGE | | GH74- 21366A | 18.8X14.5X 0.085T | 1 |
| 6 | | | | | |
| Application SGH-D520/D528 | | | | | |
| Subject Work Description I | | | | | NO |
| | connection | n of n | avi key | 3 | |
| (ED) | date of revision | Revision contents | | | |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

| Subject | Work contents | Confirmation and inspection standard |
|------------|--|--------------------------------------|
| Inspection | -Inspect the dust in MAIN WINDOW | -Hndle by badness if you find dust |
| Insertion | -Insert LCD to UPPER CASE. | |
| Re- | -RE-inspect MAIN WINDOW after removing | -Hndle by badness if you find dust |
| Inspection | half part of tape | |

[Insert LCD]



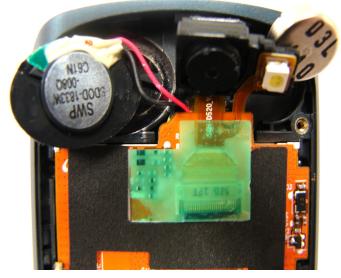
| INSTRUMENTS TO BE USED | | | | |
|------------------------|----------|------|----------|----------|
| NO | MATERIAL | CODE | STANDARD | Qua n |
| 1 | LCD | - | D520 | 1EA |
| 2 | CAMERA | - | D520 | 1EA |
| 3 | Air-gun | - | - | - |
| 4 | Tweezers | - | - | 1EA |
| 5 | | | | |
| 6 | | | | |
| | | | | |

| Application | SGH-D520/D528 |
|--------------------|------------------------|
| Subject | Work Description NO |
| Assembly UPPER CAS | E and LCD 4 |

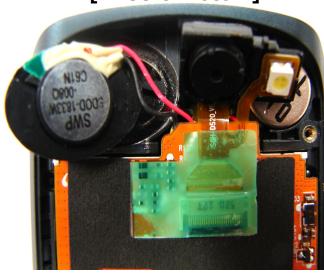
| ED | date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|------------|----------------------------------|--------------------------------------|
| Inspection | -Inspect the dust in MAIN WINDOW | -Hndle by badness if you find dust |
| Insertion | -Insert motor to UPPER CASE | -Handle wires cautiously |
| Insertion | -Insert camera to UPPER CASE | -Handle camera FPCB crack |
| Insertion | -Insert speaker to UPPER CASE | -Handle wires cautiously |

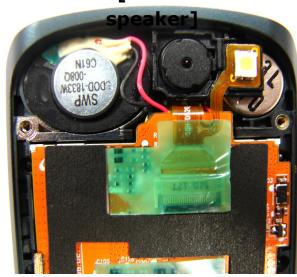
[Insertion state of LCD]







[insert





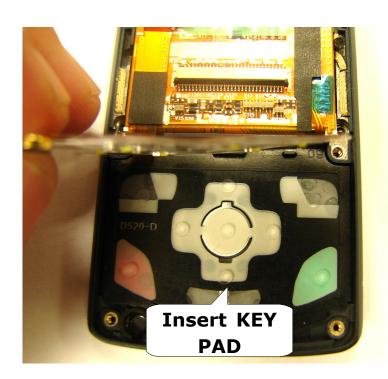


| INSTUMENTS TO BE USED | | | | |
|-----------------------|------------|------|----------|----------|
| NO | MATERIAL | CODE | STANDRAD | Qua n |
| 1 | Hand strap | - | - | 1 |
| 2 | Tweezers | - | - | 1 |
| 3 | Gloves | - | - | 1 |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

| Application | SGH-D | 520/D528 |
|--|-------|------------------------|
| Subject | | Work Description NO |
| Insertion of motor, camera and speaker | | 5 |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | - | |

| Subject | Work contents | Confirmation and inspection standard |
|------------|--------------------------------------|--------------------------------------|
| Inspection | -Inspect exterior of Unit | -scratch and printing badness |
| Insertion | -Insert Navi KEY to UPPER CASE | -Look at picture |
| Assembly | -Fix Navi KEY PBA along fixing lever | |



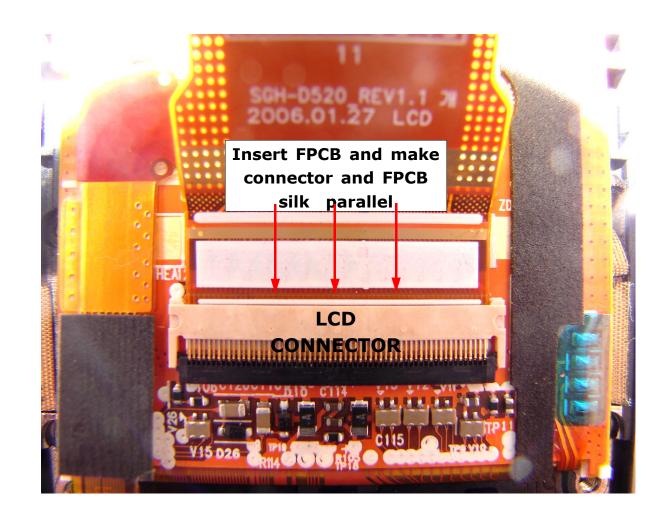


| | INSTUMENTS TO BE USED | | | | |
|----|-----------------------|-----------------|----------|----------|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | |
| 1 | NAVI KEY | GH75- 08861A | D520 | 1 | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |

| Application | SGH-D | 520/D528 |
|------------------|---------|---------------------|
| Subject | | Work Description NO |
| Assembly of Navi | KEY PAD | 6 |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|---------|--|--------------------------------------|
| TAPE | -Adhere tape | |
| REMOVE | -Remove paper on tape that is attached to LCD | |
| | -Insert FPCB and make connector and FPCB silk parallel | |



| | INSTUMENTS TO BE USED | | | | | |
|------|------------------------------------|---------|----------------------|--------------------|----------|--|
| NO | MATERI | (AL | CODE | STANDRAD | Qua n | |
| 1 | MAIN F | РСВ | GH41- 01066A | 18.33X61.0 0mm | 1 | |
| 2 | ТАРЕ | = | GH74- 21365A | 21X12.5X0. 085T | 1 | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| | Application | n | SGH-I | D520/D528 | | |
| | s | ubject | Work Descripti NO | | ption | |
| | MAIN FPCB Connection | | | 7 | | |
| (ED) | Date of revision Revision contents | | | | | |

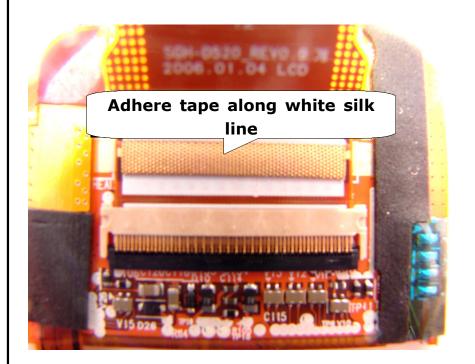
1

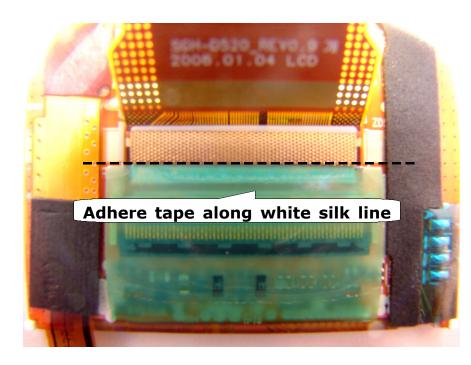
2

3

4

| Subject | Work contents | Confirmation and inspection standard |
|----------------|---|--------------------------------------|
| Adhere gold | -Adhere gold tape along white silk line | -Look at left picture |
| Adhere TAPE | -Adhere tape along white silk line | -Look at right picture |



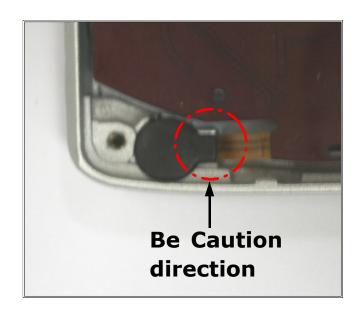


| | INSTUMENTS TO BE USED | | | | | |
|---------------------------|-----------------------|-----------------|--------------|----------|--|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | | |
| 1 | TAPE | GH74- 21369A | 19X3X0.35T | 1 | | |
| 2 | LCD Gasket TAPE | GH74- 21361A | 17X2X0.3T | 1 | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| Application SGH-D520/D528 | | | | | | |
| Subject | | | Work Descrip | ption | | |
| | ADHERE TAR | 8 | | | | |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|------------|----------------------------------|---|
| Inspection | - Inspect exterior of mic-holder | -confirm whether there is small hole(look at picture) |
| Insertion | - Insert mic-holder with mic | -look at picture |





Confirm whether there is small hole under micholder(like left picture)



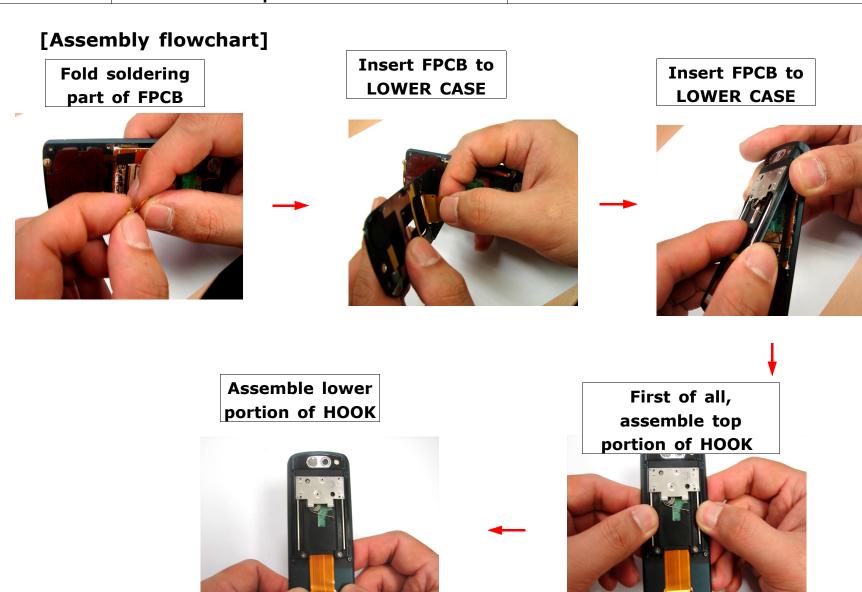


| | INSTUMENTS TO BE USED | | | | | |
|----|-----------------------|------|----------|----------|--|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | | |
| 1 | MIC-HOLDER | | D520 | 1EA | | |
| 2 | AIR-GUN | - | - | - | | |
| 3 | Tweezers | - | - | 1EA | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |

| Application | SGH-D | 520/D528 |
|-------------------|-------|---------------------|
| Subject | | Work Description NO |
| Insertion of mic- | 9 | |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|------------------------------|---|--------------------------------------|
| Inspection | -Confirm tape specification attaching basically to LOWER CASE | -Look at right picture |
| Assembly of LOWER CASE | -Fold soldering part of FPCB(2 points) -Insert FPCB to LOWER CASE -First of all, assemble top portion of HOOK -Assemble lower portion of HOOK | -Look at pictures |



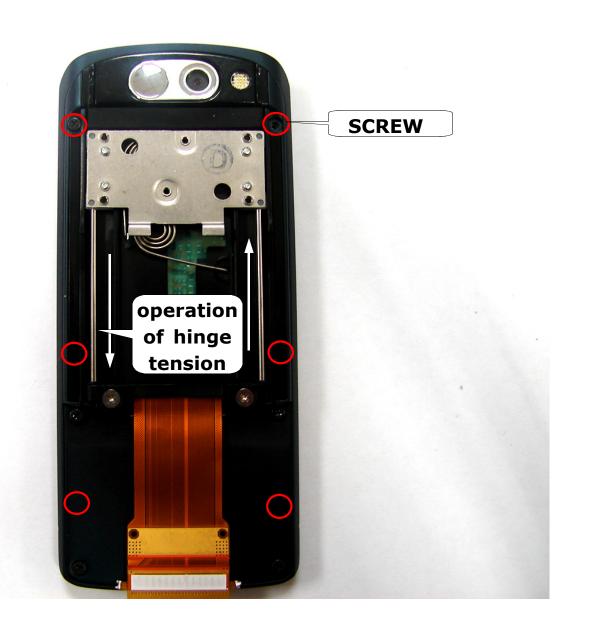
| | INSTUMENTS TO BE USED | | | | | |
|----|-----------------------|-----------------|-----------|----------|--|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | | |
| 1 | LOWER CASE | GH75- 08859A | D520 | 1 | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| | | | | | | |
| | Application | SGH- | D520/D528 | | | |

| Application | | | SGF | I-D5 | 20/D528 | |
|---------------------|---------|---|-----|------|---------------------|--|
| | Subject | | | ٧ | Vork Description NO | |
| LOWER CASE Assembly | | | | | 10 | |
| | | _ | | | | |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
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| 4 | | |

■ Torque of Electric motor when you assemble LOWER CASE and UPPER CASE

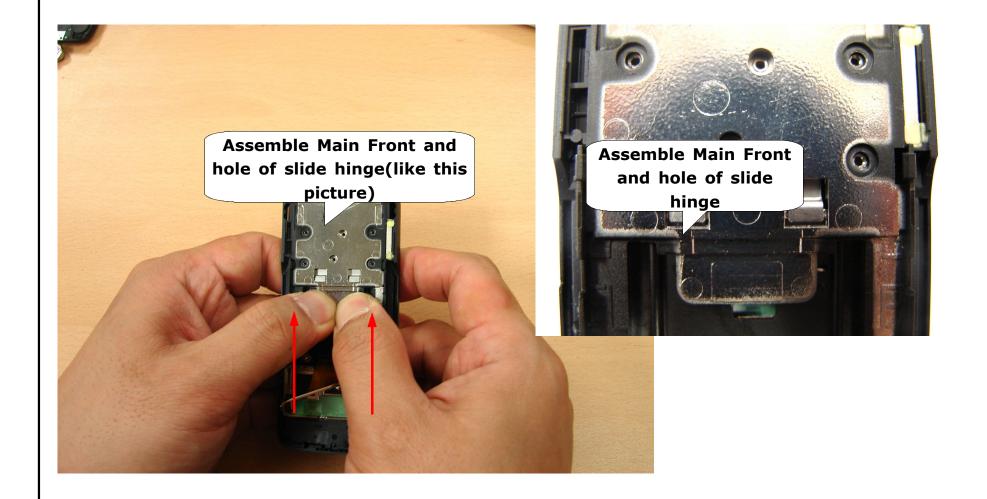
=> SPEC : 1.1kgf/m±**0.1**



| INSTUMENTS TO BE USED | | | | | |
|---------------------------|------------|----------------|-----------------|---------------------|----------|
| NO | MATER | IAL | CODE | STANDRAD | Qu an |
| 1 | SCRE | W | 6001- 001530 | M1.4,L2.5 | 1 |
| 2 | Electric ı | notor | - | - | 1 |
| 3 | JIG f | | - | - | 1 |
| 4 | Hand s | trap | - | - | 1 |
| 5 | | | | | |
| 6 | | | | | |
| Application SGH-D520/D528 | | | | | |
| Subject | | | | | |
| | | ubject | | Work Description | on |
| | S | ubject CREW | | Description | on |
| ED | S | | Revision o | Description NO 11 | on |
| (ED) 1 | Some of | | | Description NO 11 | on |
| | Some of | | | Description NO 11 | on |
| 1 | Some of | | | Description NO 11 | on |

| Subject | Work contents | Confirmation and inspection standard |
|------------------------|--|--|
| Inspection | -Inspect exterior of Main Front | -Confirm damage -Confirm whether or not magnet workHandle by badness at bonding excess to magnet |
| Assembly of Main Front | -Assemble Main Front and hole of slide hinge | -Confirm whether LCD and Main Front are twisted or not after assembly |

■ If it produces only one time that is creased to FPCB, don't reuse



| INSTUMENTS TO BE USED | | | | |
|---------------------------|----------|-----------------|-------------------|----------|
| NO | MATERIAL | CODE | STANDRAD | Qua n |
| 1 | FRONT | GH75- 08863A | D520 | 1 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| Application SGH-D520/D528 | | | | |
| | Subject | | Work Descri NO | ption |

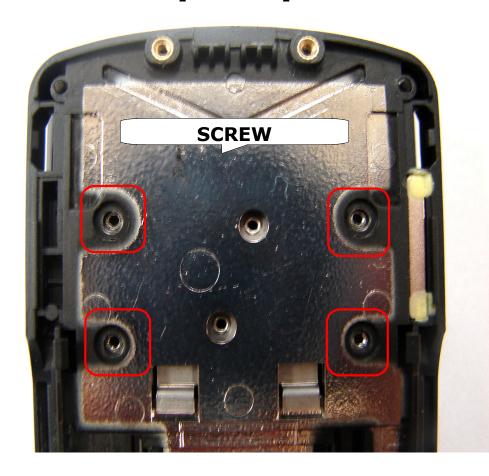
| Ass | Assembly and inspection of Main Front | | 12 |
|-----|--|------------|---------|
| ED | Date of revision | Revision c | ontents |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

| Subject | Work contents | Confirmation and inspection standard |
|---------|-----------------------|--------------------------------------|
| | -Check the screw size | |
| SCREW | -Place Front on JIG | |
| | -Screw | |

■ Torque of Electric motor when you assemble LOWER CASE and UPPER CASE

=> **SPEC** : **0.9**kgf/m ~ **1.1**kgf/m

[SCREW]

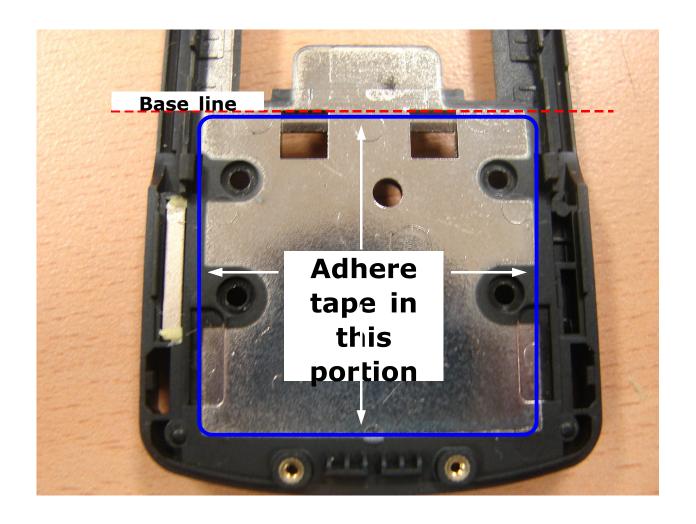


| | INSTUMENTS TO BE USED | | | |
|-----------------|-----------------------|-----------------|----------|----------|
| NO MATERIAL COD | | | STANDRAD | Qua n |
| 1 | SCREW | 6001- 001700 | M1.4,L2 | 1 |
| 2 | Electric motor | - | - | 1 |
| 3 | JIG for screw | - | - | 1 |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

| Application | SGH-D520/D528 |
|-------------|---------------------|
| Subject | Work Description NO |
| Front SCRE | W 13 |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

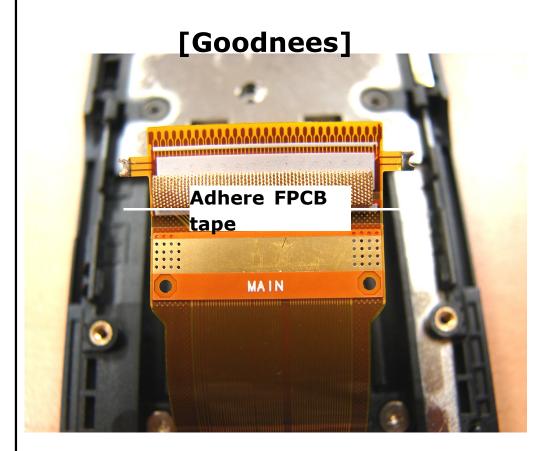
| Subject | Work contents | Confirmation and inspection standard |
|------------|--|--------------------------------------|
| Adhere | -Atach black tape via red dotted line like | |
| black tape | picture. | |

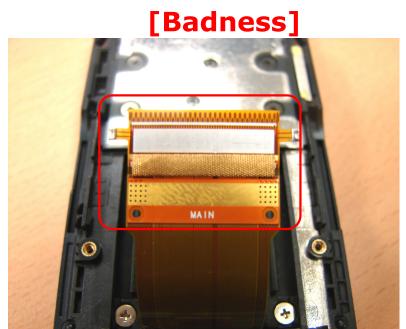


| NO | MATER: | IAL | CODE | STANDRAD | Qua n |
|---------------------------|----------------|--------------|-----------------|--------------------------------|----------|
| 1 | TAPI | E | GH74- 23218A | 32.6x34.35 x0.1,bk | 1 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| Application SGH-D520/D528 | | | | | |
| | Applicatio | n | SGH-D | 520/D528 | |
| | | n Subject | SGH-D | 520/D528 Work Descrip NO | otion |
| | S | | | Work Descri | otion |
| ED | S | Subject | | Work Descrip NO 14 | otion |
| ED 1 | Adh Date of | Subject | e | Work Descrip NO 14 | otion |
| | Adh Date of | Subject | e | Work Descrip NO 14 | otion |
| 1 | Adh Date of | Subject | e | Work Descrip NO 14 | otion |

INSTUMENTS TO BE USED

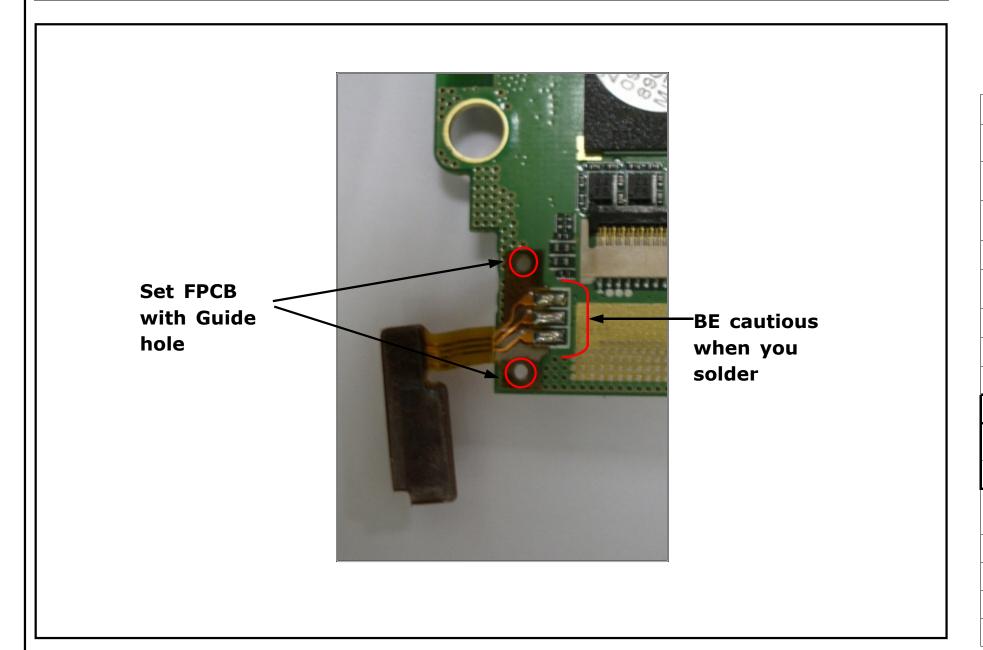
| Subject | Work contents | Confirmation and inspection standard |
|---------|----------------------------------|---------------------------------------|
| Adhere | -Ahhere MAIN FPCB Gasket TAPE in | -Adhere FPCB TAPE FPCB In top portion |
| Aunere | appointment position | of FPCB silk |





| Subject | Work contents | Confirmation and inspection standard |
|------------|---|--|
| Inspection | -Inspect camera KEY FPCB | -Damaged camera FPCB PAD/torn FPCB => Badnees |
| Inspection | -Inspect soldering parts of camera key in board | <pre>-Damaged camera KEY PAD, Separated PAD, Short => Badness</pre> |
| Soldering | -Solder camera KEY FPCB on board | -Solder between Guide Holes -Don't happen short |

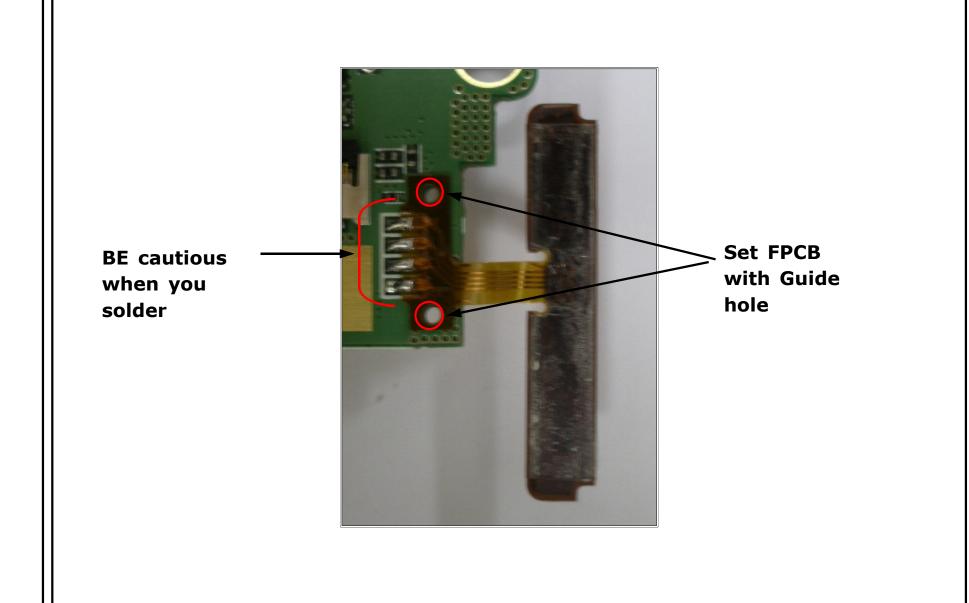
- Take care so that CHIP and SHORT may not happen after soldering of camera KEY FPCB
- Temperature of Soldering iron: 350°~380°
- Do to drop power after use of soldering iron complete



| INSTUMENTS TO BE USED | | | | | | |
|-----------------------|---------------------------------|-------------------|----------|--------------------|----------|--|
| NO | MATER | IAL | CODE | STANDRAD | Qua n | |
| 1 | Camera Key FPCB | | - | D520 | 1EA | |
| 2 | JIG for soldering of Camera Key | | - | D520 | 1EA | |
| 3 | Soldering | iron | 1 | 350°~380° | 1EA | |
| 4 | Lead | | - | SR-34 (PA TYPE) | 1EA | |
| 5 | Hand-strap | | - | - | 1EA | |
| | _ | | | | | |
| | | | | | | |
| | Applicatio | n | SGH-D | 520/D528 | | |
| | S | Subject | | Work Descri | ption | |
| S | oldering of | camera | KEY FPCB | 16 | | |
| ED | Date of revision | Revision contents | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |

| Subject | Work contents | Confirmation and inspection standard |
|------------|---|--|
| Inspection | -Inspect SIDE KEY FPCB | -Damaged SIDE FPCB PAD/torn FPCB => Badness |
| Inspection | -Inspect soldering parts of side key in board | <pre>-Damaged SIDE KEY PAD, Separated PAD, Short => Badness</pre> |
| Soldering | Solder SIDE KEY FPCB on board | -Solder between Guide Holes -Don't happen short |



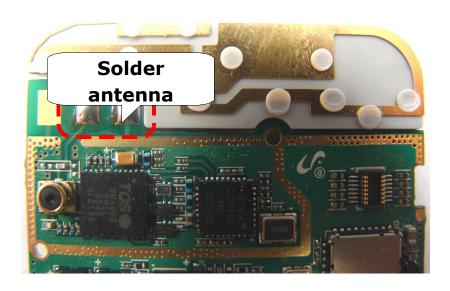


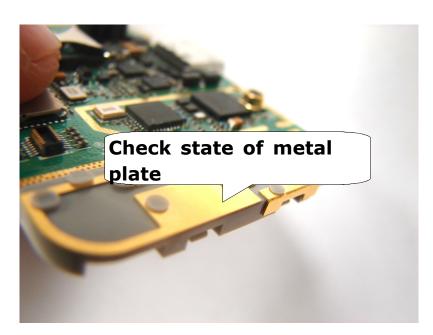
| INSTUMENTS TO BE USED | | | | | |
|-----------------------|-------------------------------|--------|------------|--------------------|----------|
| NO | MATERI | AL | CODE | STANDRAD | Qua n |
| 1 | SIDE KEY | FPCB | _ | D520 | 1EA |
| 2 | JIG for soldering of Side Key | | - | D520 | 1EA |
| 3 | Soldering iron | | - | 350°~380° | 1EA |
| 4 | Lead | | - | SR-34 (PA TYPE) | 1EA |
| 5 | Air | | _ | - | - |
| 6 | Hand-strap | | _ | - | 1EA |
| 7 | Gloves | S | - | - | 1EA |
| | Application | 1 | SGH-I | D520/D528 | |
| | Sı | ubject | | Work Descri NO | ption |
| | Soldering of | SIDE | KEY FPCB | 17 | |
| (ED) | Date of | | Revision c | ontents | |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|------------|---|---|
| Inspection | Inspect exterior of antenna | Check Flexure of Metal plate ,Damage and Dust |
| Soldering | -Place board and antenna on JIG -Solder antenna | |

■ Temperature of Soldering iron: 350°~380°





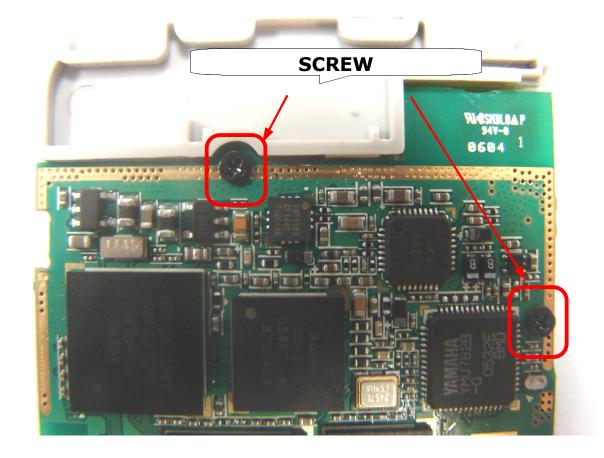
| INSTUMENTS TO BE USED | | | | | |
|-----------------------|----------------|------|--------------------|----------|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | |
| 1 | Antenna | - | 이터트로닉스 | 1EA | |
| 2 | Soldering iron | - | 350°~380° | 1EA | |
| 3 | Lead | - | SR-34 (PA TYPE) | 1EA | |
| 4 | Air | - | - | - | |
| 5 | Hand-strap | - | - | 1EA | |
| 6 | Gloves | - | - | 1EA | |
| 7 | | | | | |
| | | | | | |

| Application | SGH-D520/D528 |
|-----------------|---------------------|
| Subject | Work Description NO |
| Soldering of an | tenna 18 |

| ED | Date of revision | Revision contents |
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| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|------------|--|---|
| Inspection | -Inspect the exterior of SHIELD CAN(Metal) | -Check whether there is part that come out bounding on insideThere is part that come out bounding(Occurrence of Short) =>Badness -Silver part of WALL part has bounded to side and come out =>Badness badness |

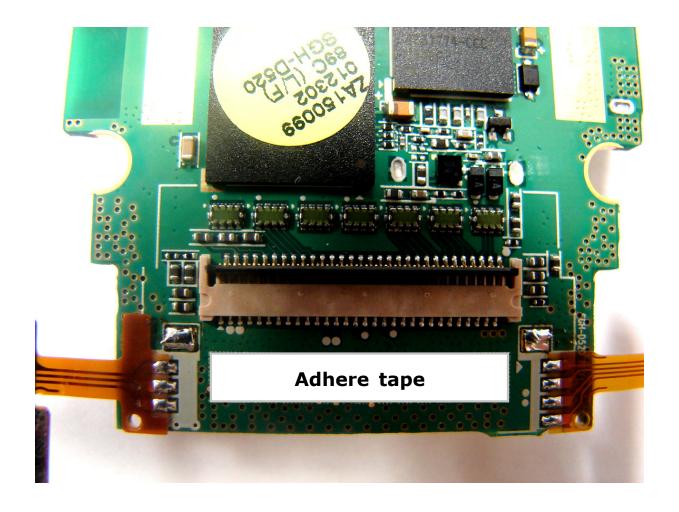
Warning■ Torque : Torque : 1 ± 0.1 Kgf/^{cm²}



| | IN | ISTUME | NTS TO BE U | JSED | |
|-------------|---------------|---------------|-----------------------|-------------------|----------|
| NO | MATERIAL | | CODE | STANDRAD | Qua n |
| 1 | Gloves | | - | - | 1EA |
| 2 | Hand-st | trap | - | - | 1EA |
| 3 | + screwo | driver | - | - | 1EA |
| 4 | screw | | 6001- 001478 | M1.4 * L3 | 2EA |
| 5 | JIG for screw | | - | - | 1EA |
| Application | | | SGH-I | D520/D528 | |
| | | Subject | | Work Descri NO | ption |
| | | <i>abject</i> | | NO | |
| | RF Shied | | ssembly | S19 | |
| (ED) | | | ssembly Revision o | S19 | |
| (ED) | RF Shied | | - | S19 | |
| | RF Shied | | - | S19 | |
| 1 | RF Shied | | - | S19 | |

| Subject | Work contents | Confirmation and inspection standard |
|---------|---|--------------------------------------|
| | -Use alcohol to remove a stitch of tape | -Adhere TAPE along base line. |
| Adhere | -Adhere tape | -when you adhere tape, don't contact |
| | | soldering of Key PAD |

- Take care so that SHORT may not happen with slide connector pin when you adhere tape
- Check whether there is a stitch or not after adhering tape



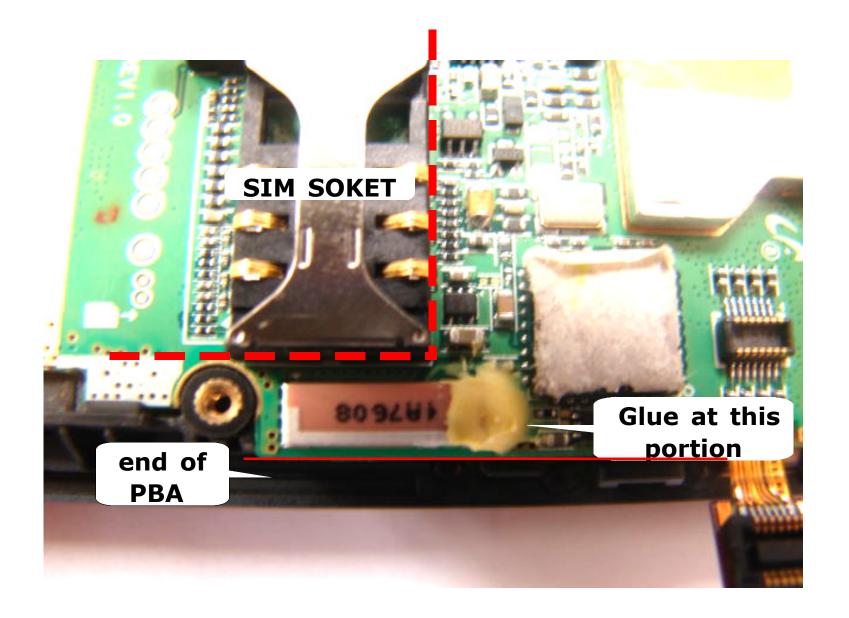
| | INSTUMENTS TO BE USED | | | | | |
|----|---------------------------|-----------------|-------------------|-------|--|--|
| NO | MATERIAL | CODE | STANDRAD | Quan | | |
| 1 | Таре | GH74- 21367A | 19×4.5×0.3t | 1EA | | |
| 2 | Hand-strap | - | - | 1EA | | |
| 3 | Gloves | - | - | 1EA | | |
| 4 | Tweezers | - | - | 1EA | | |
| 5 | | | | | | |
| 6 | | | | | | |
| | Application SGH-D520/D528 | | | | | |
| | Subject | | Work Descri NO | ption | | |

| ED | Date of revision | Revision contents |
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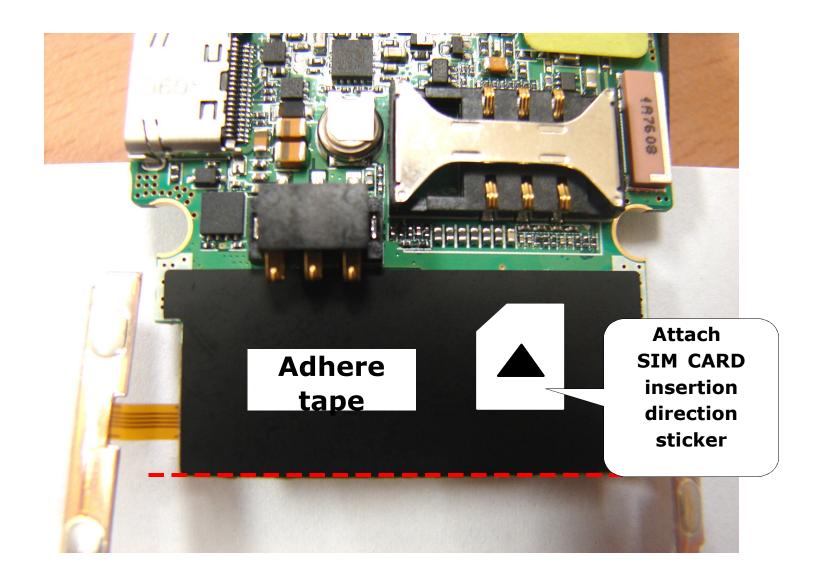
Adhere tape

| Subject | Work contents | Confirmation and inspection standard |
|--------------|--|--|
| Glue | -Glue on upper side of Bluetooth antenna | -Glue avoids that invade to SIM SOKET. |
| Giue | | -Glue avoids that is spread end of PBA |
| | -Confirm whether glue invaded in SIM SOKET | -Blue invaded to SIM SOKEY => Badness |
| Confirmation | | (You can't assemble MAIN SET and it does not |
| | | become SIM CARD realization) |



| | INSTUMENTS TO BE USED | | | | |
|---------------------------|-----------------------|-------------------|------|-------------------|----------|
| NO | MATER | IAL | CODE | STANDRAD | Qua n |
| 1 | Hand-s | trap | - | - | 1EA |
| 2 | Glove | es | _ | - | 1EA |
| 3 | Glue | 9 | - | - | 1EA |
| 4 | Glue b | ulk | - | - | 1EA |
| 5 | | | | | |
| 6 | | | | | |
| Application SGH-D520/D528 | | | | | |
| | S | Subject | | Work Descri NO | ption |
| | | Glue | | 21 | |
| ED | Date of revision | Revision contents | | | |
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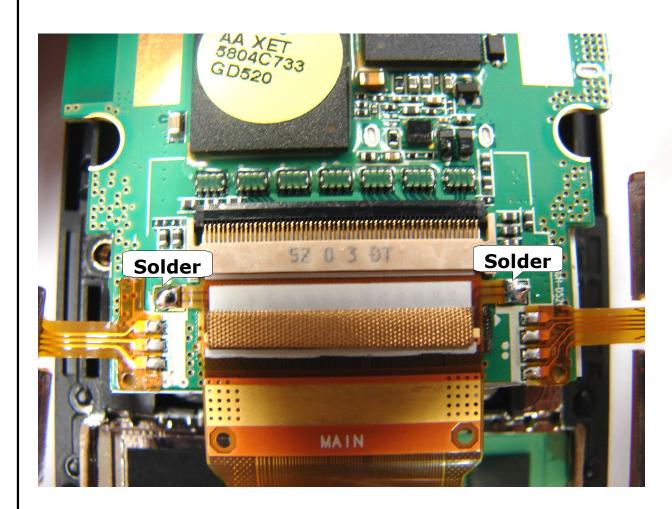
| Subject | Work contents | Confirmation and inspection standard |
|----------|---|--|
| Adhere | -Adhere black TAPE in rihgt position like picture | -Adhere via end of PBA (Red dotted line) |
| SIM CARD | -Adhere SIM CARD insertion direction sticker | |
| Sticker | like picture | |



| | INSTUMENTS TO BE USED | | | | | |
|-------------|-----------------------|---------|-----------------|-----------------------|-------|--|
| NO | MATERI | AL | CODE | STANDRAD | Quan | |
| 1 | TAPE | | GH74- 23217A | 33.85x14.3x 0.1,bk | 1 | |
| 2 | SIM CA Sticke | | GH68- 01920A | - | 1 | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| Application | | | SGH-D520/D528 | | | |
| | Sı | ıbject | | Work Descri NO | ption | |
| | Adh | ere tap | e | 22 | | |
| | Date of revision | | Revision | contents | | |
| 1 | | | | | | |
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| 4 | | | | | | |
| | | ı | | | | |

| Subject | Work contents | Confirmation and inspection standard |
|-----------|--|--|
| Soldering | -Place JIG on JIG -Remove paper on tape -Connect FPCB to board connectorPress down once after connection of FPCB and tape -Solder FPCB both soldering PAD with board | -When solder, that take care so that surroundings CHIP and SHORT may not happen -Check state of PAD after FPCB soldering |
| PN Label | -Attach PN label attaching for board to MAIN WINDOW | |

■When solder, that take care so that surroundings CHIP and SHORT may not happen



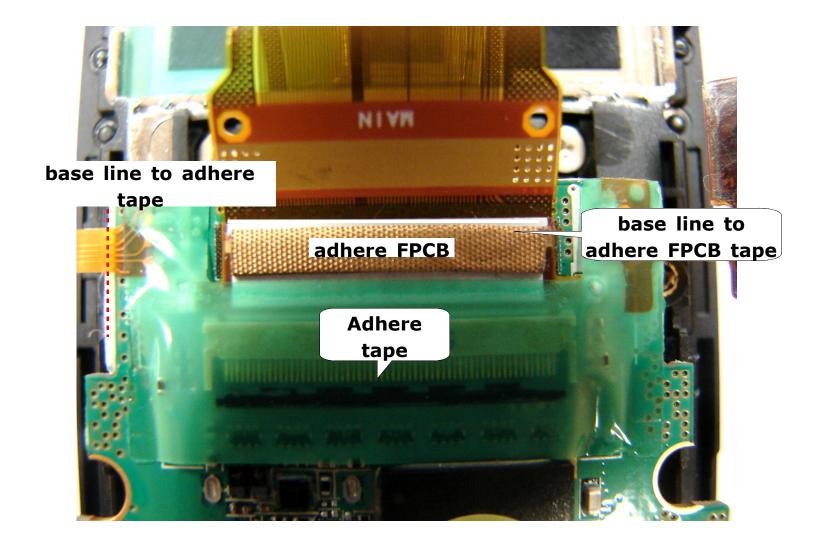


| | INSTUMENTS TO BE USED | | | | |
|----|-----------------------|------|--------------------|------------|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | |
| 1 | Soldering iron | - | 350°~380° | 1EA | |
| 2 | Lead | - | SR-34 (PA TYPE) | 1EA | |
| 3 | JIG for soldering | - | D520/D528 | 1 대 | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |

| Application | SGH-D520/D528 | |
|----------------------|---------------|---------------------|
| Subject | | Work Description NO |
| Conncet and Solder N | MAIN FPCB | 23 |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |

| Subject | Work contents | Confirmation and inspection standard |
|--------------|-----------------------------|---|
| Adhere | -Adhere tape | -Adhere via TAPE sticking. |
| Confirmation | -Confirm state of FPCB TAPE | - Confirm whether attached via silk. =>Badness of slide connection happen if do not attach via silk |



| NO | MATERIA | AL | CODE | STANDRAD | Qua n |
|-------------|--------------|--------|-----------------|--------------------------|------------|
| 1 | TAPE | | GH74- 21368A | 30X15.5X0. 085T | 1 장 |
| 2 | JIG for solo | dering | - | D520/D528 | 1 대 |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| Application | | | SGH-D520/D528 | | |
| | Application | I | 3411-2 | <i>320, D320</i> | |
| | | ıbject | 3011-2 | Work Descrip | ption |
| | Sı | | | Work Descri | ption |
| ED | Sı | ıbject | | Work Descrip NO 24 | ption |
| (ED) | Su Adhe | ıbject | e | Work Descrip NO 24 | ption |
| | Su Adhe | ıbject | e | Work Descrip NO 24 | otion |
| 1 | Su Adhe | ıbject | e | Work Descrip NO 24 | ption |

INSTUMENTS TO BE USED

| Subject | Work contents | Confirmation and inspection standard |
|------------------|---|--|
| Board | -Place board on Front | |
| Assembly | -Assembles from antenna and assembles the top portion | -Be cautious occurrence of loose antenna |
| Confirmatio n | -Confirm state of antenna and HOOK | -Be cautious occurrence of loose antenna |
| Assembly | -Assemble SET lower portion | |
| Connect | -Connect MAIN KEY connector to board | |
| Insertion | -Insert camera KEY in Front. | |
| Insertion | -Insert Side KEY in Front. | |

■ Confirm the direction when you assemble SIDE KEY, camera KEY => if you consider the direction, badness happen.

[Place board]



[Assembly of upper portion]



[Confirm state of antenna]



[Assembly of lower portion]



[Connect connector]



[Insert camera Key]



[Insert Side Key



| INSTUMENTS TO BE USED | | | | | |
|-----------------------|------------|-----------------|-----------|----------|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | |
| 1 | Camera KEY | GH75- 08866A | D520/D528 | 1EA | |
| 2 | Side KEY | GH75- 08277A | D520/D528 | 1EA | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |

| Application | SGH-D | 520/D528 |
|-------------------------------------|-------|---------------------|
| Subject | | Work Description NO |
| Assembly of Camera key and Side key | | 25 |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|----------|--|--|
| Assembly | -Assemble top portion of the MAIN SET | -Confirm GAP and White screen after assembly |
| Assembly | -Assemble right side of MAIN SET | -Confirm GAP and difference of height |
| Assembly | -Assemble left side of MAIN SET left side. | -Confirm GAP and difference of height |
| Assembly | -Assemble lower portion of MAIN SET | -Confirm GAP and difference of height |

■ Assemble so that Flexure and White screen don't happen at top portion HOOK region assembly of SET.













[right side of MAIN SET]

[lower portion of MAIN SET]



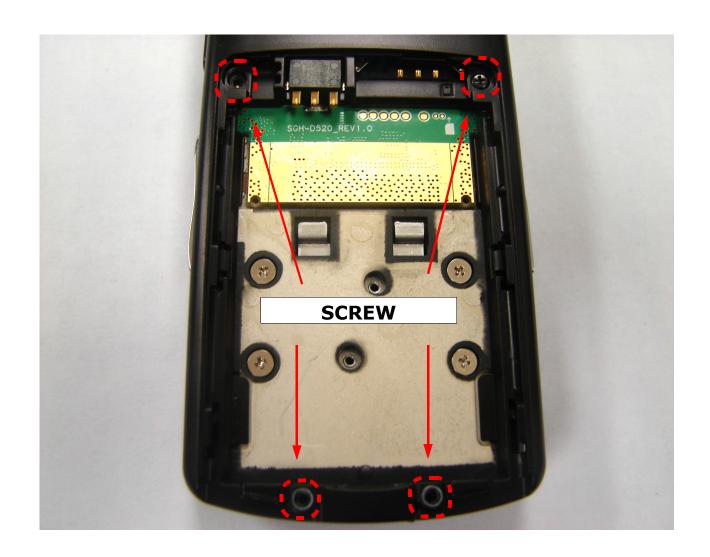
| INSTUMENTS TO BE USED | | | | | |
|-----------------------|------------|-----------------|-----------|----------|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | |
| 1 | REAR ASS'Y | GH97- 05191A | D520/D528 | 1EA | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |

| Application | SGH-D520/D528 |
|-------------------|---------------------|
| Subject | Work Description NO |
| REAR Assembly and | tesion test 26 |

| ED | Date of revision | Revision contents |
|----|------------------|-------------------|
| 1 | | |
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| 3 | | |
| 4 | | |

| Subject | Work contents | Confirmation and inspection standard |
|---------|-----------------|--------------------------------------|
| SCREW | -SCREW(4POINTS) | |

Warning ■ Screw TORGUE : 1.6kgf/m

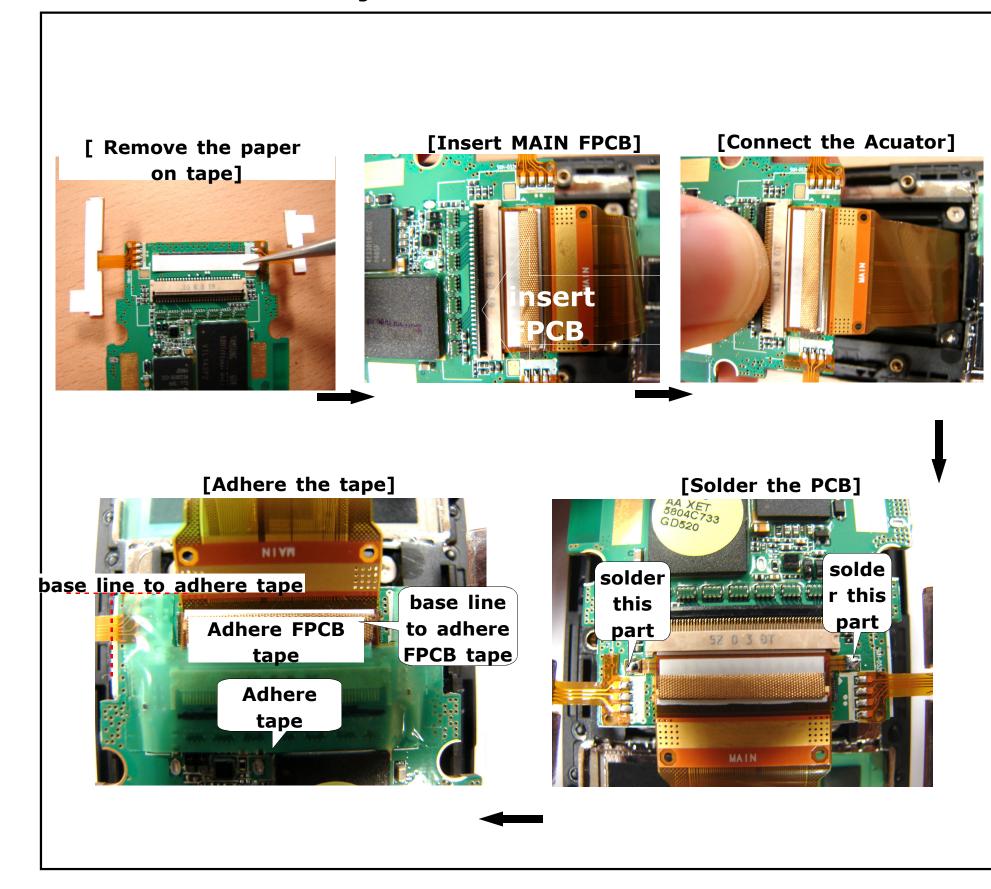


| | INSTUMENTS TO BE USED | | | | | |
|----|-----------------------|-----------------|--------------------|----------|--|--|
| NO | MATERIAL | CODE | STANDRAD | Qua n | | |
| 1 | SCREW | 6001- 001478 | M1.4,L3 | 1EA | | |
| 2 | BLACK TAPE | GH74- 19614A | 32.2X49.5X 0.1T | 1EA | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

| Application | SGH-D520/D528 |
|-------------|---------------------|
| Subject | Work Description NO |
| SCREW | 27 |

| ED | Date of revision | Revision contents |
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| 1 | | |
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| 3 | | |
| 4 | | |

11-3. Slide FPCB KIT assembling



Warning

- Take care so that CHIP and SHORT may not happen
- Put on strap and gloves to remove electricity

| | Instruments to be used | | | | | |
|----|------------------------|------|--------------------|----------|--|--|
| NO | MATERIAL | CODE | STANDARD | Qua n | | |
| 1 | Soldering ion | _ | 350°~380° | 1EA | | |
| 2 | Solder | - | SR-34 (PA TYPE) | 1EA | | |
| 3 | JIG for solder | - | D520/D528 | 1EA | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| | | | • | | | |

| Application S G H - D 5 2 0 / D 5 2 8 | | |
|---------------------------------------|--|---------------------|
| Subject | | Work Description NO |
| connection and soldering of MAIN FPCB | | 24 |

| ED | when to modify | what to modify | |
|----|-------------------|----------------|--|
| 1 | | | |
| 2 | | | |
| 3 | | | |